The American Artisan
And Hardware Record

Vol. 49, No. 13. CHICAGO, APRIL 1, 1905. $2.00 Per Year.

BOMMER SPRING HINGES
(ESTABL. 1876.)
BOMMER BROTHERS, M'F'RS. ARE THE BEST 256 TO 276 CLASSON AVE. BROOKLYN, N.Y.

COLUMBUS BOLT WORKS
COLUMBUS, OHIO.

We carry a full line of Bolts, Nuts, Washers, Carriage Forgings, Etc.

Our 1905 Catalog will be mailed on receipt of 3-cent stamp to cover postage.

CHAIN
"American" and "Niagara"

Halter Chains—Dog Chains—Cow Chains—Coil Chains. Chains for all kinds of Machinery.

ONEIDA COMMUNITY
Oneida, N. Y.

"The man who whispers down a well
About the goods he has to sell,
Won't reap the golden, gleaming dollars,
Like one who climbs a tree and hollers."

THE ATLAS BOLT & SCREW CO.
CLEVELAND, O.

STOVE BOLTS, RIVETS, RODS
And Kindred Articles
Catalogue and Prices on Application

Always On Top

Any weak spot in your roofs should be attended to now. A leaky roof can cause an immense loss on short notice. American Seal Elastic Oil Cement is sure cure. If your roof is old and cannot be soldered this is the one thing to use. American Seal Roof Paints, Metallic and Graphite, preserve and protect. None better, none just as good. Prices are right even if the quality is the very best.

Agencies: J. L. PERKINS & CO., 235 Lake St., CHICAGO, ILL.
STOCKHOFF SUPPLY CO., 107 N. Main St., ST. LOUIS, MO.

BLACK DIAMOND FILES AND RASPS
PERFECT—ALWAYS

TWELVE MEDALS AWARDED AT INTERNATIONAL EXPOSITIONS

G. & H. BARNETT CO.
Black Diamond File Works PHILADELPHIA

BROWN WELDLESS COW TIES
Twice as strong as welded chain.

A sample (full length) delivered for one cent. Any Retail Dealer sending postal card request with name of Jobber secures sample prepaid.

Sole Manufacturers
The Bridgeport Chain Co., Bridgeport, Conn.

No matter what you now think

You will Eventually handle

Steel Ranges

The trade and demand for them is constantly increasing with us. We have heard it said that "It is much better to meet conditions than to be overtaken by them."

Let Us Start You Right

Our advantages and our facilities enable us to put

Good Goods Within Easy Reach

Price with steel High Closet $18 and up, and not so very far up either.

PITTSBURGH STOVE & RANGE CO.

PITTSBURGH, PA.

Western Agency, W. D. SAGER, 38 to 40 Michigan Street, CHICAGO, ILL.

THAT'S WHERE

That's where it catches him. That's where a poor range gets in its destructive work. That's where it affects your customer—makes him swear to boycott you in the future. A poor range means poorly cooked food. It means irregular meals and stomach troubles.

The Rival Clermont Steel Range

insures proper cooking. The oven is evenly and quickly heated at top, bottom and each corner. It's absolutely the best steel range that money can buy.

Gem City Stove Co., Dayton, O.

Manufacturers the Clermont Air Tight Hot Blast and other Stoves, and Oaks and Ranges.

M TRADE MARK

Moore's Stoves Always Please

"IT SHOWS IN THE FINISH"

Quality!

MOORE'S 3 STORY SYSTEM

FOR BASE BURNERS

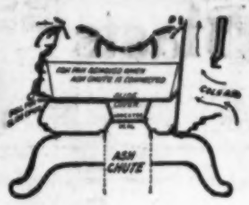
PATENTED

1 HEATS UP-STAIRS. The extra amount of inside heating and radiating surface makes it possible to heat the upstairs comfortably through the double heater.

2 HEATS THE MAIN FLOOR. Perfect Flue construction and draft regulation give the greatest possible amount of heat from the fuel and circulate it evenly throughout the rooms.

3 DROPS THE ASHES DOWN CELLAR. Moore's Patent Ash Chute drops the ashes into the closed ash barrel down cellar, prevents all dust, and makes Moore's Base Burner cleaner than any other stove or furnace.

Where the cellar connection cannot be made, the ash pit and large ash pan remain the same as in ordinary construction, and the ash chute, or cellar opening, is closed by a cast plate and also by a separate air seal of heavy asbestos board.



¶ No dust, no ashes. This will excite the interest of your customers more than anything which you can show them. Large Lithograph Posters, similar to the above, furnished free, Agencies being placed NOW. Have we heard from YOU?

JOLIET STOVE WORKS, Joliet, Illinois.

STOVES AND RANGES TOLEDO, O.

Radiant Gem

STOVES AND RANGES TOLEDO, O.

Base Burners

Oaks

Hot Blasts

Steel Ranges and Cooks

Cast Ranges and Cooks

New and Elegant Design; Pull Out Fire Pot Through Front Doors; Three Sizes.

It will pay you to correspond with us, getting our prices and cuts of our entire lines.

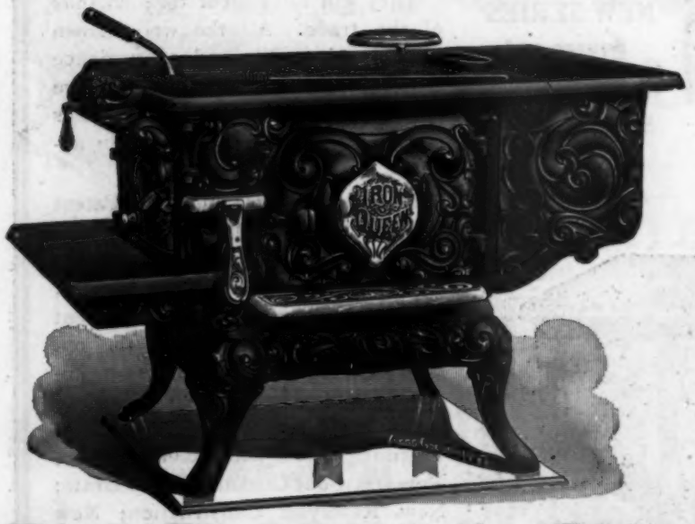
Toledo Stove & Range Co., Toledo, Ohio

JOHN KONTNY, 65-67 N. Desplaines Street, Chicago, Western Agent.

Do you know him? He has 40,000 square feet of floor space.

THE IRON QUEEN

A FULL NEW LINE



They Have

Square Oven
Drop Pouch Feed
Aluminum Lined Oven Doors
Deep Ash Pit
Large Cast Ash Pan with bail
Cemented Top Oven Plate
Oven Door Pedal or Kicker
Enameled Reservoir
A Fine Looker
A Good Worker
Well Mounted
The price extremely low.

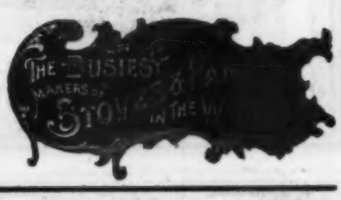
Nickeled Parts:

Swing Cover Holder
Towel Rod
Outside Oven Shelf
Grate Shaker
Oven Door Name Plate
Lid Lifter

Send for a sample. It's O. K. and a Winner.

The Portsmouth Stove & Range Co.

PORTSMOUTH, OHIO



Morley Bros., Saginaw, Mich.,
Wholesale Agents for Michigan.

10 BEST REASONS Why the King Bee Air Blast

SHOULD BE IN EVERY HOME

Because—It is the **Cleanest,** most **Economical,** most **Perfect Operating** and best all around stove of its class made

Because—It **does not require** an **expert** to operate it.

Because—It is mounted with our **Famous Anti-Buckling Ring,** which prevents **drum from warping.**

Because—It is **guaranteed** to be **air-tight** and will always remain so.

Because—It has an **Exposed Fire Pot,** an essential feature to insure **long life** and powerful **base heat.**

Because—It has a **Broad Deflecting Ring,** which keeps **Base** as hot as any **Hard Coal Base Burner.**

Because—It has a **Large Ash Pan.**

Because—It is **Unsurpassed** as a **Gas** and **Smoke** Consumer.

Because—It has our **Patent Perforated Puff Preventor,** which positively **prevents** all **puffing** and **explosions** so common to all other Hot Blast Air Tight Stoves.

Because—It burns **Soft Coal, Hard Coal, Coke, Slack, Wood, Cobs,** or any kind of fuel.

It will pay you to investigate the King Bee Air Blast. IT WILL SAVE ONE-HALF THE FUEL BILL.

The Stove is All Right—The Price is All Right.

IT IS A TRADE WINNER

We Are the Original Inventors of the Down Draft.

Ask for King Bee Booklet, prices and territory.

CULTER & PROCTOR STOVE CO., Peoria, Ill.

MANUFACTURERS are cautioned against using our PATENT PERFORATED PUFF PREVENTOR

BORN'S 1905 RANGES

NEW SERIES

Square and Reservoir

SIX SIZES

16 in., 18 in. and 20 in. Ovens.

8 Gal. Reservoir

They will fully meet the demands of the trade. All the well known features of quality and convenience that have made this line famous have been retained and many new ones added, placing it still further in advance of competition.

Everybody knows about the Patent Removable Non-warping Oven Bottom, Counterbalanced Oven Door, Patent Malleable Oven Door Hinges, Adjustable Flue Strip and Patent Encased Reservoir, but in the cut herewith will be seen numerous improvements—New Pouch Feed of extra large size; New Roll Front Warming Closet with steel brackets; New Draw-out Coal and Wood Grate; New Reservoir Construction; New Nickel Ornamentation; and other New Ideas, which cannot be properly explained here.

Send for particulars and prices.

The Born Steel Range Company, CLEVELAND, OHIO.

THE following is taken from a half-page advertisement of the most prominent retail hardware firm in Spokane, Washington. It appeared in a recent issue of the Spokane "Daily Chronicle"—

"We hear in our store every day an increasing demand for the 'Monarch, The Stay Satisfactory Range.' The reason for this is that in the past *two years we have sold over 1,500 Monarch Ranges* and we have the first one to be returned to us as unsatisfactory."

The above is proof that the Monarch is what we claim—a seller. It is a money maker because the price is right. Let us send you a sample and if you don't believe the line will prove a profitable seller with you after you have seen the range and compared our prices you may return the sample at our expense for freight both ways. Ask for "Our Plan" and prices.

Malleable Iron Range Company

BEAVER DAM, WISCONSIN

TRIUMPH
HOT AIR FURNACES

Are Made in
MANY STYLES
and in
MANY SIZES

JOHN KONTNY, Western Agent
65-67 N. Desplaines St., CHICAGO

THE CRAIG-REYNOLDS FDY. CO.
DAYTON, OHIO

Mfrs. Triumph Furnaces, Triumph Hot Water and Triumph Steam Heaters

VAN'S RANGE

Patent Improved Wrought Steel Portable

For Hotels, Restaurants, Public Institutions, Boarding Houses, and Private Families. All kinds of Hotel Implements for culinary purposes. Manufactured and for sale by

The John Van Range Company

419 Elm and 410, 412, 414 and 416 Home Streets

CINCINNATI, - - - - - OHIO

STAR STOVES AND RANGES
STAR SHOVEL & RANGE CO. VINCENNES, IND.
GUARANTEED

VINCENNES, INDIANA

DETROIT VAPOR STOVES

28 STYLES

"DETROIT"

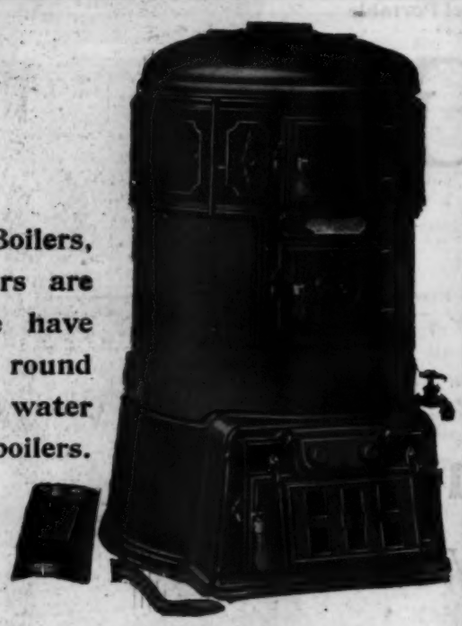
Double Ring Burner

No Generating. Perfect Combustion. No Waste of Gasoline. Pure Fire. No Smoke. No Smell. Absolutely Safe. Self-Cleaning. Our **CABINET RANGES** stay when sold as they bake and are O. K.

Send for Catalogue K and Secure Agency

The Detroit Vapor Stove Co.
DETROIT, MICHIGAN

Floral City



Hot Water Boilers, Steam Boilers are leaders. We have a full line of round and sectional water and steam boilers.

Write us for catalogue.

Monroe Foundry & Furnace Co.
Monroe, Mich.

THE TORRID ZONE

Steel Furnace riveted like a boiler. Dust proof, gas tight.

WHY?

Does the TORRID ZONE made in Marshalltown sell against all competition, and business increase every year

IN PENNSYLVANIA
IN COLORADO
IN TEXAS

and all intervening territory as well as exceedingly large sales in Iowa, Nebraska, Illinois and Minnesota.

Write us and find out.

The Lennox Furnace Co.
MARSHALLTOWN, IOWA

Farwell, Ozmun, Kirk & Co., Northwestern Distributors.

Plumbing,

Drainage, Water Supply and Hot Water Fitting.

By John Smeaton, C. E.

CONTENTS:

Chapter 1. Introduction. 2. Drainage. 3. Danger from city wells. 4. External plumbing. 5. Internal plumbing and fitting. 6. Sanitary plumbing. 7. Water services and tapping of mains under pressure. 8. Water supply. 9. Ornamental leadwork. 10. Heating. 11. Hot water work. Index.

236 pages, 217 illustrations, 8vo., cloth.

Price, $3,00.

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DANIEL STERN,
59 Dearborn St.,
Chicago.

1885 **THE RETORT** 1905

Nos. 216	218	220
Weights 320 lbs.	405 lbs.	475 lbs.

We call your attention to our

RETORT

in the above numbers and weights as the

HANDSOMEST, HEAVIEST

and most elaborately trimmed of all the new stoves brought out recently.

It is unequaled for

CLEANLINESS, ECONOMY AND POWER.

This stove operates equally well with

HARD OR SOFT COAL,

by simply changing magazines, which can be done in 20 minutes by any one.

The only stove in the market with

INTERCHANGEABLE MAGAZINES.

If you want a specialty you can control, write us for catalogue and prices.

MARION STOVE CO.,

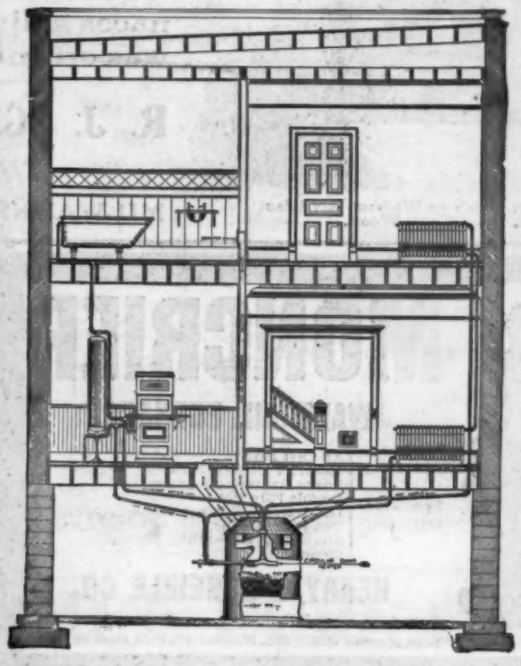
MARION, IND.

600 Different Specialties

Household Inventions and Bath Fixtures.
If you haven't our Catalog write at once.

SILVER'S BROOKLYN

304-314 Hewes St., 432 Broadway, BROOKLYN, N.Y.



SECTION OF FURNACE SHOWING

Smith's Circular Giant

Connected to two Radiators, also supplying hot water for domestic purposes :: :: :: ::

Charles Smith Company

101 Lake Street, Chicago.

YOU CAN DO WITHOUT

the sale of MUELLER furnaces, but if you wish to secure the cream of the furnace business in your vicinity, you will find MUELLER furnaces of great value. They are known all over for their good qualities.

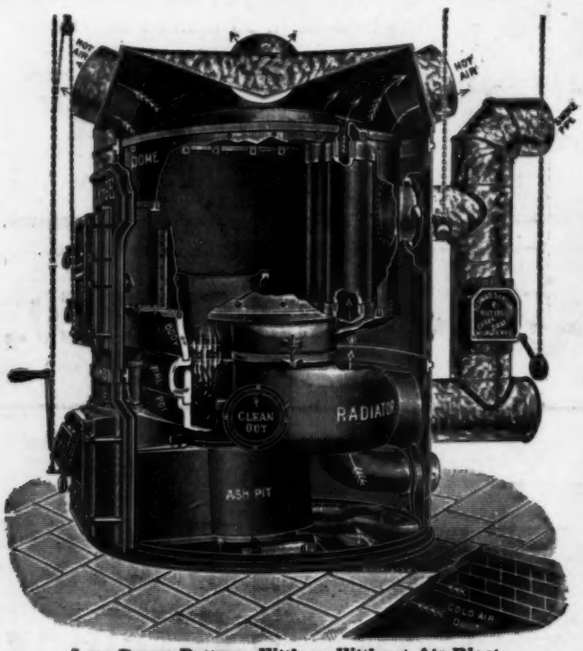
MUELLER furnaces are heating thousands of homes in all parts of the United States, and this large army of users would not get along without them since they have learned their great comfort giving qualities. POWERFUL, DURABLE, ECONOMICAL.

Just the line for live dealers to handle. Are you among this class? If so, write to-day for our agency proposition.

L. J. MUELLER FURNACE CO.

ESTABLISHED 1857

191 REED STREET MILWAUKEE, WIS.



Low Down Pattern. With or Without Air Blast
Soft Coal, Hard Coal, Wood.

Gilt Edge Furnaces

have been on the market for a great many years. The first furnace made was an improvement over the other furnaces on the market. Since then Gilt Edge goods have been studied, examined and bettered with unceasing industry until now we feel that they excel other furnaces still more than when our line was originally introduced.

R. J. SCHWAB & SONS CO.

THE FURNACE MEN

MILWAUKEE - - WISCONSIN

MONCRIEF

WARM AIR FURNACE.

Specialties:
- All Cast Iron.
- Moncrief Duplex Grate.
- Large Radiating Surface.
- Double Fire Pot.
- Large Grate Surface.
- Top Return Flue.
- Simplicity, Durability, Economy.
- Cleanliness in Use.

HENRY & SCHEIBLE CO.

6-8-10 Long St., Cleveland, O.

Sales Agent—J. C. KIMMEL, 2214 East 15th St., Kansas City, Mo.

CUT THIS OUT

To the Publishers

The American Artisan and Hardware Record

69 Dearborn Street, CHICAGO

Please send us THE AMERICAN ARTISAN each week for three months. At the end of that time we will remit Two Dollars for one year's subscription, or 50 cents in case we decide to discontinue.

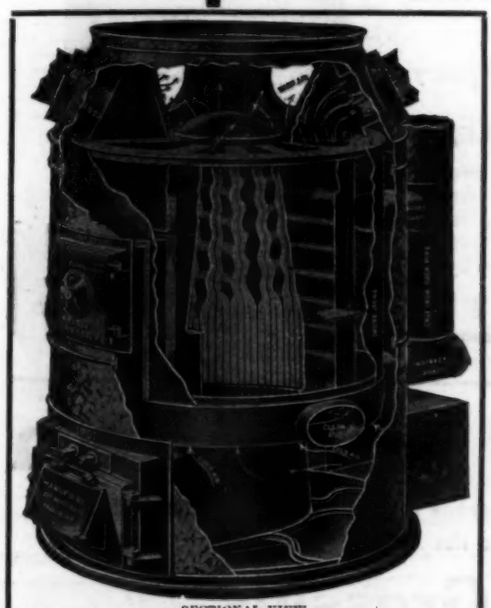
NAME .....

ADDRESS .....

TOWN .....

STATE .....

SCHOOL HOUSE HEATING



SECTIONAL VIEW
Showing inside and outside casings, and positive cap attachment over the flues through which warm air is forced to distant rooms.

The recent exhaustive test conducted to ascertain the real efficiency of the KELSEY Warm Air Generator proved beyond question that the KELSEY is particularly adapted for School House Heating.

The novel method of forcing the fresh air through the corrugated cast iron flues insures that all the air passing through the Generator will be thoroughly and evenly warmed.

The thorough tests also proved that the KELSEY is also especially adapted for fan or blower systems—for the KELSEY warms the air uniformly and evenly, no matter whether the circulation be slow or rapid.

If you know of a contemplated heating system for a School, Church, Hospital or other large building in your vicinity, we will gladly outline the exclusive Agency for the KELSEY, and assist you in securing any desirable contracts.

Send for our Proposition to-day—before your competitor.

"There's Only ONE Warm Air Generator."

KELSEY HEATING COMPANY, SYRACUSE, N. Y.

New York City:
156 FIFTH AVENUE

Western Sales Agents:
COOK & VAN EVERA CO., 38 E. Lake St., CHICAGO, ILL.

JAMES SMART MFG. CO., Ltd., Brockville, Ont., Sole Makers for Canada.

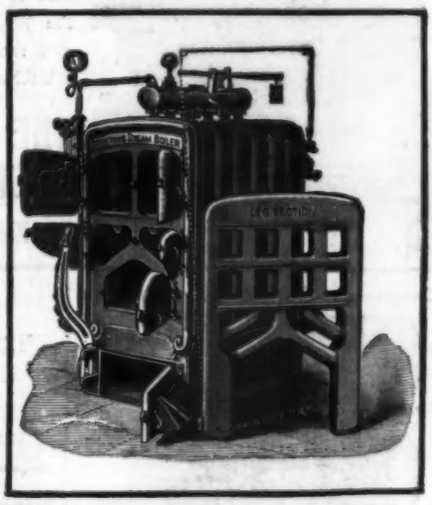
THE NAME

BOYNTON

has an established value when applied to
Furnaces, Steam and Hot Water Heaters.

This has been gained by years of honest value — by giving in 1849, 1860, 1870, 1880, 1890, 1900, 1905 the best heating apparatus made at that time. Our customers know that we keep abreast of the times and are always first in the field with every real improvement.

WRITE US FOR CATALOGUE



The BOYNTON FURNACE CO.

147-149 Lake St., CHICAGO **207-209 Water St., NEW YORK**

PERFECTION
Ventilating School Room Heater

for Township Schools.

Superior to any made in this country.

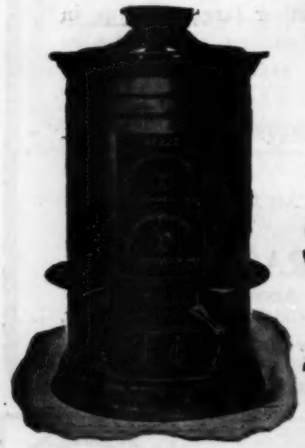
THE MONARCH FURNACE,

made of heavy annealed steel, has a very large radiating surface, has our patent revolving grate, is easy to operate; is absolutely gas and dust tight, and manufactured by

KRUSE & DEWENTER

427-429 E. Washington St., Indianapolis, Ind.

Send for Catalogue and Price List



School Children

are the life of a nation. Everyone agrees that to make them strong, healthy, vigorous, is to make the nation strong, healthy, vigorous.

The Grossius School-Room Ventilating Stove

does exactly what its name implies. It is a good talking stove and it sells because of its almost necessary virtues. Our catalog tells all about it.

The John Grossius Furnace Co.

409-411 East 8th St., Cincinnati, Ohio

CERTAINLY

the best for the dealer, fully guaranteed, requires few repairs and price right, considering quality. Secure the agency now for the **WEIR** all-steel gas and soot consuming **FURNACE.**

THE MEYER FURNACE CO.

PEORIA, ILL.

"THE HANDY FURNACE PIPE"

ABSOLUTELY SAFE

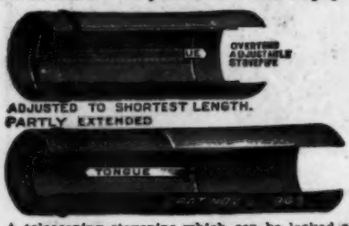
The saving of labor in putting it up, makes it the cheapest hot air pipe in the market.

Write for catalog.

F. MEYER & BRO. CO.

PEORIA, ILL.

Overton's Adjustable Stovepipe



A telescoping stovepipe which can be locked at any desired length. Saves cutting the pipe. Anyone can adjust it without tools or trouble. Used with ordinary stovepipe. Your customers need it, especially those living at a distance. Sold by jobbers, or write to

The Dunlap Mfg. Co., Dunlap, Ia.

NOW "GET BUSY"

If you hardware men are not in the Hot Water heating business, WHY NOT? Possibly because you think that the prices are too high for the man in ordinary circumstances to pay.

The Phillips Hot Water Heater has knocked out the old time prices on Hot Water Heating. The PHILLIPS is the first Hot Water Heater made that will carry its full rated capacity. It has an honest, net rating.

There are twenty honest and tangible reasons why the dealer can make $20 additional profit and $20 per annum saved to the man that pays the coal bills. Write for our catalogue explaining the reasons why.

GREAT WESTERN HEATER COMPANY, Box 645, DES MOINES, IOWA

When things aren't going quickly, and you can't use twine;
When cobwebs gather thickly, just drop us a line.

The Enterprise Grate

Note the many desirable points in this small part of the Enterprise Furnace.

High, Roomy Ashpit—Just what is desired.

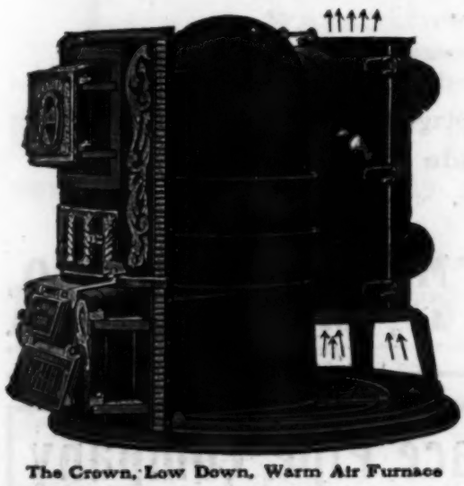
Deep, Tapering, Corrugated Firepot—Small or large fire as required. No burned air from the Enterprise Furnace. Plenty of pleasant warmed air.

And Then the Grate—not a better one made—Ball-bearing—a child can operate it. Draw center for removing clinkers—they are always with us. See where the air enters—around the outside—right where you need the hottest fire.

Do not these points appeal to you ?

There are many more—Our catalogue tells you all about them. Ask for it.

C. W. SHUMWAY & SONS
BATAVIA, ILL.



The Crown, Low Down, Warm Air Furnace

"Went Like a Good Looking Girl"

That's the way one dealer described his sales on a shipment of

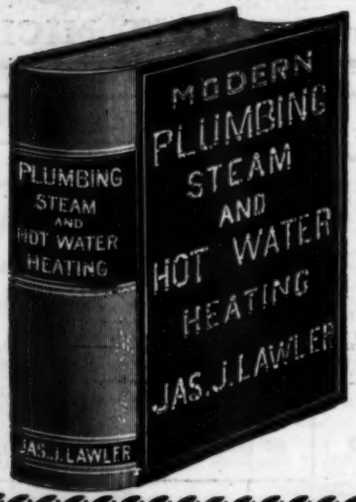
Crown Low Down Furnaces

sent him last fall. We receive lots of letters like this. Our customers are all enthusiastic. It will pay you to look into the matter. Get our latest furnace book.

March-Brownback Stove Co.
POTTSTOWN, PA.

Modern Sanitary Plumbing.

Steam and Hot Water Heating.



An Encyclopedia of Practical Plumbing.
By JAMES J. LAWLER.
400 pages, large octavo, size 6x9 inches. Price, $5.00.

A reviewer in speaking of this book says:

"This is a book of an intensely practical character. It contains hundreds of drawings and plans and has already taken its place as a leading practical authority in its chosen field."

"Whether the mechanic is looking for information about hot water systems for greenhouses under pressure or is desirous of learning the capacity of the hydraulic ram; whether he is anxious to learn how to make the smoke and peppermint test or wants to protect his well from cesspool soakage; whether he desires a receipt for plumber's soil or is anxious for tips on the location of hot water boilers below the waterback; whether he would delve into the mysteries of exhaust steam heating or would gather points on the box waste connections; whether his work is tapping radiator mains or making repairs in occupied houses; in any of the above or a thousand other cases that will arise in the course of a year's work at plumbing or steam fitting this book will be found to contain a ready key to the technical questions at issue."

For Sale by DANIEL STERN,
69 Dearborn St., - - CHICAGO.

EMPEROR FURNACES

FOR WOOD

SIMPLE SAFE DURABLE

ECONOMICAL IN FUEL

The Best and Cheapest Line of Wood Furnaces. Furnished for either Brick or Galvanized Iron Casing

BERGSTROM STOVE CO.

Send for Catalogue **NEENAH, WIS.**

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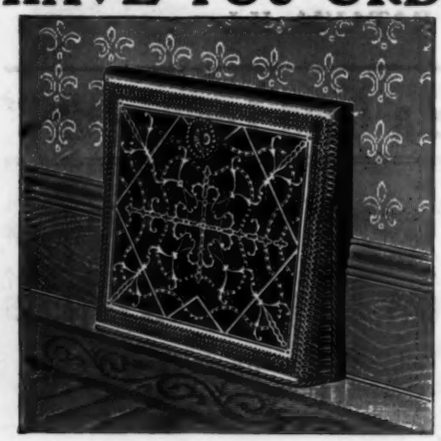

Wise dealers are placing their orders for registers **now.**

Write to-day and find out why it will be to your advantage to put in a good stock of **Stowell Side Wall** and **Floor Registers** at once.

STOWELL MFG. & FDRY. CO.,

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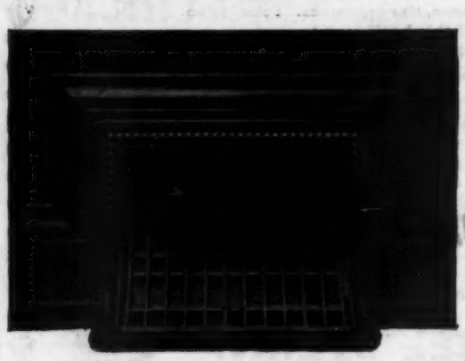
The Michigan Safety Furnace Pipe Company

THE STIFFEST AND BEST FINISHED MACHINE MADE PIPE ON THE MARKET

Manufacturers of Safety Wall Pipe and Single Pipe and Fittings in Both Tin and Galvanized Iron.

Send for our Catalogue and SPECIAL Districts.

39-41 E. Atwater Street, DETROIT, MICH.



Foster's Special No. 55

The SPECIAL

has the greatest capacity of any Wall Register now offered.

For sale in Canada by the **GUELPH FOUNDRY CO.,** **GUELPH, ONTARIO**

C. H. FOSTER

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ST. LOUIS, : MO.

It Will Pay You

to illustrate your advertisements in your local papers. A sheet of comic advertising cuts sent on application.

These cuts are furnished with catchlines showing their application to the hardware, stove and tinners' trades.

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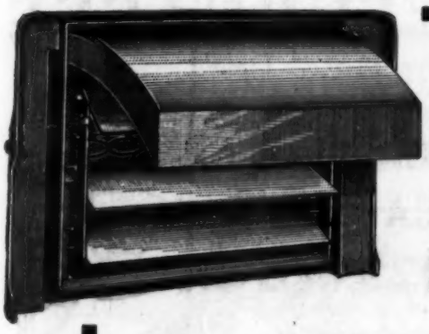
DANIEL STERN

69 Dearborn St., - CHICAGO



This is a Rear View

of the WATERLOO REGISTER—the Register that supplies moisture with warm air.

The pan at the top of the Register—easily removable—is readily filled with water.

The warm air impinging on this pan evaporates the water, supplying the necessary moisture for comfort and health.

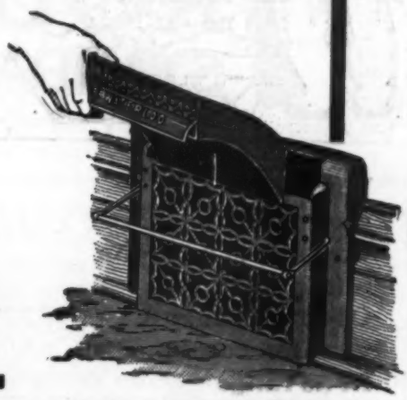
The WATERLOO REGISTER is the only Register made, having a self-contained Water Reservoir.

It furnishes moisture for each apartment—positively and uniformly.

The WATERLOO REGISTER has a foot-rest, shown in the lower illustration, by which the blades are opened and closed.

You'll find our booklet and prices very interesting.

Free to any Retailer.



Waterloo Register Co.

WATERLOO, IOWA.

FURNACE MANUFACTURERS

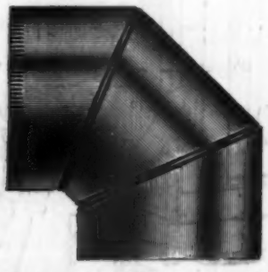
WHY DO YOU USE CAST IRON CASING RINGS WHEN YOU CAN BUY STEEL ONES?

We make the best that is made. They cost less and are much stronger, lighter, neater and better all around than cast iron rings. Write us for samples and prices.

THE WALWORTH RUN FOUNDRY COMPANY, Cleveland, O.

Absolutely The Best

Stove Pipe and Elbows



Furnace Pipe and Fittings

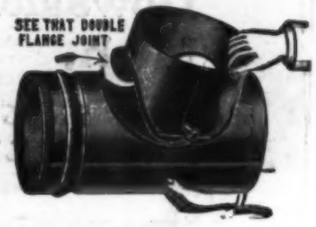
THE EXCELSIOR STEEL FURNACE CO., 38 W. Monroe Street, **CHICAGO**

Catalogs and Prices on application.

HANDY NESTED STOVE PIPE T JOINT

Saves 90 per cent of room.
Saves 75 per cent of freight.
Does not damage in shipping.
Is stronger and neater than a hand made riveted T.
Is always ready for use.
Fastens together with two bolts.
Is a perfect fitting joint.

Never the rusty and unsightly T Joint usually offered for sale. Always neat, clean and salable. Packed ten 12-inch joints in a crate 7x7 inches and 12 inches long. Weighing 18 lbs. Made in Common, Polished Blue Steel and Planished Iron.



WRITE FOR PRICES AND SAMPLES

KINNE MANUFACTURING CO., - - - Minneapolis, Minn.

You like to sell *good* goods.
You like to have the prices *right.*
Of course, it is a winning combination.
In no range construction ever offered the trade is the above "blend" quite so satisfactory as in the Round Oak Chief Steel Range for 1905.
We have said it was a "seller,"
a *"profit maker"*
a "trade winner."
It is true.
We have the proof.
If interested in a range of *high quality* at a *right price,* order a sample, or, if you like, we will send the *proof* first.

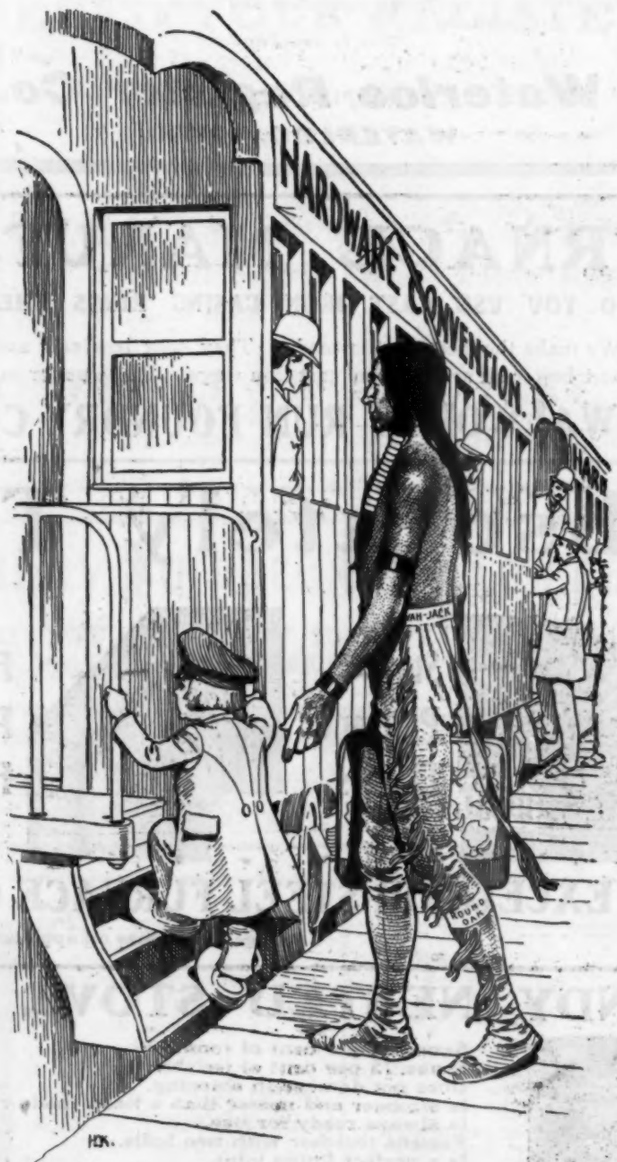
Estate of

P. D. BECKWITH

FRED E. LEE, Manager

Dowagiac Mich.

MAKERS OF GOOD GOODS ONLY



"Now, Fritz, we are off for the Hardware Dealers' Convention."

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

TERMS OF SUBSCRIPTION IN THE UNITED STATES, THEIR POSSESSIONS, AND CANADA, (Invariably in advance): ONE YEAR, POSTAGE PAID, $2.00.
IN FOREIGN COUNTRIES EXCEPT CANADA, ONE YEAR, POSTAGE PAID, $4.00.
Address all Letters, communications and remittances to

DANIEL STERN, PUBLISHER AND PROPRIETOR,
69 DEARBORN STREET, CHICAGO, ILL.

Entered at the Chicago Post Office as Second Class Matter.
THIS PAPER IS A MEMBER OF THE CHICAGO TRADE PRESS ASSOCIATION.

CHICAGO, APRIL 1, 1905.

For the many kind expressions of sympathy for the death of my esteemed associate, Sidney P. Johnston, I hereby extend my deepest and heartfelt thanks, in behalf of his bereaved family, THE AMERICAN ARTISAN staff and myself.

DANIEL STERN.

Wages in Germany.

FROM statistics printed in the Advertiser, Giessen, Germany, the following statement shows the average daily wage of an adult laborer permanently employed, winter and summer, at that place at specified periods during the last seventy-five years: 1830, 13.5 cents; 1840, 16.8 cents; 1850, 20.4 cents; 1860, 26.4 cents; 1870, 33.6 cents; 1880, 48 cents; 1890, 54 cents; 1900, 60 cents; 1905, 64.8 cents. It thus appears that the laborer's wage has increased five-fold since 1830. It should be borne in mind that the necessaries of life, house rent, etc., have also greatly increased during the seventy-five years under consideration, although not to the same degree as the wages.

Given these statistics, a comparison between these low wages and the higher ones prevailing at present in this country unconsciously arises. The average wage in this country is perhaps very close to $1.65 per day, or practically two and one-half times as much as is paid in Germany. On the one hand, this great difference in the relative wages seems to imply that American workmen are and have been vastly more fortunate than their European brothers. On the other hand, it is well to note that the cost of living in the United States is very much higher than in Germany and that a great deal of the wage-earners' surplus profit is wiped away because of this fact.

However, it is unquestionably true that American workmen do maintain a higher standard of living than German workmen; that their wages actually are higher in spite of the greater cost of living in this country. We find that their home conditions tend toward the luxurious, that their tables are more plenteously provided and with a greater variety of dishes, and that they are as a rule possessed of more leisure hours. How, then, one might ask, is it possible for American manufacturers, who pay approximately two and one-half times as much for their labor and whose margin of profit must necessarily be greater than that of German manufacturers, because of the greater cost of living—how is it possible for these manufacturers to undersell German manufacturers in the latters' own country?

In answering this question, the relative natural advantages of the two countries must be considered. American has her vast and endless ssupply of almost every mineral used in the manufacture of the useful goods. She has her vast plains of cheap land to be used for grazing purposes. She has her many and mighty waterways, making carriage between producer and manufacturer a comparatively cheap matter. She has all of these and many others, which Germany has not to so great an extent. But there is still another consideration to be reviewed—the relative efficiency of the workmen in the two different countries. Here America has every advantage. Her workmen are, on the whole, more intelligent, more industrious, more competent and more ambitious than those of any other country in the world. This condition is brought about partly by the ideal example set by the early founders of this country, but most of all by the fact that the immigrants to this world are the cream of their respective countries. Only enterprising, ambitious and energetic people will see fit to leave a country in which conditions are fairly comfortable to locate in a land where their very livelihood will hang in the balance.

That American workmen are vastly more efficient than those of others nations and that, though they charge more for their services, the actual value given to their employers is greater than that given by the employes abroad, was well exemplified several years ago, when an American in England imported American builders to finish the construction of a vast structure which had been begun by English builders. It was estimated that it would have taken the Englishmen over seven years to complete the job. They worked on it for one year and a half. Then the Americans arrived and proceeded with the task, finishing it in a little over two years.

RANDOM SKETCHES.

BY SIDNEY ARNOLD.

ONE of the most vital problems discussed and argued by scholars of the middle ages was the question: "Who first pronounced the name of God?" After an infinite number of winged words had been sent forth by pen and tongue, a wise old fellow, whose scholastic experience had been tempered by an everyday intercourse with the outside world, propounded the theory that the devil was the first to utter the sacred word, "God."

The theory spread like wild fire and soon received universal approval. Scholars and the laity alike were unanimous in according affirmation to the statement and fame to the author.

I fancy that most people will imagine that this practical scholar was a little loose in his upper machinery—that he was shy a few pounds of gray matter. A cynic would undoubtedly declare that the old boy had a very strong, Mark Twainian sense of humor. But not at all, the propounder of this theory had a wonderfully good knowledge of this world, its inhabitants and their ways. He was a keen student of character. He knew then, as you and I know now, that absolutely no one, be he saint or demon, can live and succeed without possessing the reputation and appearance of virtue.

A man who bears a bad name, whether the stigma is justified by actual conditions or not, is a dead one. He might as well tie a house to his neck and then hunt up a good deep lake. He won't have the chance of a cake of ice in Hades when it comes to social relations and the business of life. He's a doomed man.

The wise old scholar had figured this out and finally came to the conclusion that the devil, being a crafty, shrewd, hypocritical gazabo, would appreciate these conditions, and would, of all people, be the first to simulate the ways and graces of his Maker, in order to more successfully beguile his intended victims. Visiting them with a tail, horned ears and cloven feet—in the conventional garb—he would immediately be cast forth as an abomination. Visiting these same people with the name of God upon his lips and other appurtenances of virtue in his demeanor his chances for tempting would be increased a million fold. Therefore, declared this wise old scholar, the devil was the first through the nature of things to utter the name, "God."

But all this is neither here nor there except as it demonstrates—pretty conclusively, in my opinion—the extreme value to be placed upon appearances and a good reputation by all men who are anxious to succeed in life. This world is too busy and populous for men to actually live with and study all their business associates. We *have* to judge by appearances to a great extent, and the fellow, who has the appearance and the reputation for honesty, industry and business enterprise, has a handicap of two hundred feet in a hundred-yard race.

I am afraid that retailers are a little too prone to take their reputation for granted. Knowing themselves to be honest and conservative, they assume that all others realize the same fact. Not having a Dun or a Bradstreet around their own office, they assume that their jobber has none, and that the jobber's credit man knows each retailer personally.

I can think of blame few assumptions that are further from the actual truth. Dun and Bradstreet cut an awfully big figure in a retailer's relations with his creditors. An A1 man could get the moon in a locket if he'd only ask. The chap, whose rating is keyed at the other end gets the leavings from every meal. His every action is watched by his creditors. Drummers are cautioned "to keep their eyes open." He's pretty much like the spotted thief, and if he makes one *faux pas*, it's all up. Moreover, his orders are not filled so promptly. The goods sent are occasionally of the job-lot nature. His complaints don't receive the same consideration, etc. And all this, because his reputation is a trifle crispy.

I spoke to a hardware retailer recently about this matter and he agreed with me entirely. Then he asked the very pertinent question: "What are you going to do about it? Suppose you haven't a million-dollar bank account behind you. How are you going to get an A1 credit account, when you've got to eat bread and oatmeal for dinner? You've simply got to let your account slide and pay up when you can."

There are thousands of national banks in this country and a good many more state and private banking institutions. All of them are only too anxious to buy notes with interest at five or six per cent per annum, and if they're getting more than this they're mighty lucky. Any retailer can avail himself of these funds and thus make cash payments on all merchandise ordered of manufacturers and jobbers. Moreover, he can do all this at an actual dollar-for-dollar profit to himself.

Suppose you, Mr. Hardware Dealer, order $1,000 worth of merchandise, distributed as follows:

Lawn mowers	$ 42.00
Enamel ware	246.80
Ammunition	64.60
Tinware	166.40
Registers	25.00
Furnace pipe and fittings	38.10
Hay tools	120.90
Tinplate	63.00
Washing machines	67.20
Spring hinges	9.60
Ice cream freezers	88.10
Carpenters' tools	68.30
	$1,000.00

Let us suppose that when the shipment arrives you are dead broke. Suppose instead of waiting until you've disposed of the stock before paying the bill, you go to the nearest bank and borrow $1,000 at 8 per cent—an exorbitantly high rate. Then let's suppose you paid for the goods sent you with the $1,000 borrowed. *You will get 2 per cent off for cash.* This discount is something all manufacturers and jobbers will give freely.

Not only this, but you will benefit besides by the close prices wholesalers are very willing to make for spot cash buyers. There is almost invariably a substantial bonus meted out to the fellows who have the

coin in their hip pocket as against their less astute brethren who buy on time. I have a letter on my desk from Yowell & Co., hardware, stoves, tinware, roofing and spouting, at Culpeper, Va., who inform me that a great part of their great success is due to the fact that they discount all bills and receive the lowest possible prices.

Then again it is well to take advantage of the bargain sales, to be able to lay in heavily when prices are low and an advance in sight and to help out those jobbers who are occasionally long on merchandise and short on shekels.

There are a thousand and one advantages to be derived from having a ready flow of coin on tap.

But above all, I feel that the greatest benefit which this system entails is the freedom from care and worry incident to outstanding accounts. Instead of working to maintain the foundation of his business career, the man, who has a clear column after his name in the jobber's books, has a chance to devote his attention to additions and improvements. He can look for other worlds to conquer. I have seen this system worked out successfully in more than one case and unsuccessfully in none. I have seen it produce a healthy, hearty and popular dealer out of a worried, cynical and crabbed dealer. It has enlarged his store. It has brought more customers. It has given him a chance to undersell his competitors. It has given him a surplus at the bank instead of a deficit.

* * *

I take the greatest of pleasure in adding the following gem to my peerless pile of priceless poetry. While my own ability as a critic of the most sacred of all arts has been sorely questioned by various authorities, still I firmly believe that this ode not only exceeds in true poetic insight all endeavors which I have previously published in these columns, but even ranks with the best of any country, man or time. The poet with the childlike modesty of the true litterateur shrinks from disclosing his family name, and it was only with the greatest of difficulty that I finally prevailed upon him to allow me to unburden his secret to such readers as might truly value its possession and should signify such appreciation by inquiry. The roundelay bears the sumptuous title

THE FLIES CAN'T EAT MY KITTY'S TAIL.

I'm a pretty good judge of most men and their ways,
Though I made many beefs in my earlier days;
But experience teaches which peaches are sweet,
So that now I can tell you what's chaff and what's wheat.

Though I ain't up on knowledge and hain't studied Greek,
Though I never saw college, I ain't any freak;
I can tell a good man by the look in his eyes,
And can pick out the dead-beat or show you the prize.

I believe there is something that brands hypocrites—
That betokens the people that lives by their wits;
They're a little too oily—a little too sleek;
They'll God-bless you to-day and then damn you next week.

But then just as the devil will show through the oil,
So the right kind of manner shows rock-bottom soil.
You can tell by his eyes, you can tell by his smile,
If a man's a real man and without any guile.

Now I know of a fellow—I've known him for years—
That he is the real stuff, I ain't got any fears.
He is free with his money; he's free with his time.
He is pretty good-looking and just in his prime.

Though he seems to be gruff, I will have to confess
That I've known him to help out the poor in distress.
He's a good, hearty fellow while out on a lark,
But there's nary a knocker can call him a mark.

He has got lots of friends and he sticks to them too.
When he says a thing's so, you can swear it is true.
You can bet that he'll never speak sweet to your face,
And then call you "an easy" in some other place.

Though I ain't much at writing a eulogy hymn,
He's been candid with me and I'll speak good of him.
He is shy a few hairs, still he ain't door-knob bald,
And he sells good spring hinges, "The Matchless" they're called.

These spring hinges work smoothly; they're made for the floor.
Their construction's ball-bearing; I could tell you more.
The concern is called Lawson, it's on Dearborn street;
You just call there some day when it ain't off your beat.

For their treasurer's jolly—a good-natured boy.
He is plum full of gladness and goodness and joy.
He's the chap that I mentioned as being the real stuff,
He is there with the goods and he's right up to snuff.

Though I won't tell his name still perhaps you can guess.
When the boys call him "Pop" he don't like them the less.
His real name's not uncommon—begins with a B,
And E N are the next, then come an N E.

If you're wise you can tell without further delay,
Double T makes the end, but no more will I say.
If perchance you don't know him you better get next,
He's as good as a preacher without any text.

THE AMERICAN ARTISAN is a good sheet.
In its line I believe it has got them all beat.
If you'll publish this poem, to your cause I'll be true—
Just as true as "Pop B." is to me and to you.

* * *

WE understand that the first barb tin ever produced in the Republic of Mexico is now in the possession of W. A. Pratt, an assayer of Aguas, Calientes. This barb was produced from a deposit located in the state of Aguas, Calientes, and the developing work is now in progress. The Indians in that section have been using tin for centuries, but up to this time the mine has never been systematically worked.

* * *

THE merger of Southern iron furnaces, in behalf of which a meeting of Southern interests was held a fortnight ago in New York City, but which, it was announced, failed to arrive at an agreement, is again a matter of the most lively discussion. A representative of one of these furnaces is reported as having announced that the merger was progressing very satisfactorily, and that it would undoubtedly take place in the very near future. It is, of course, obvious that the proposition presents a number of problems which must of necessity be worked out slowly. Great secrecy is manifested by all of the principals in the transaction, as any definite announcement at this time might create the greatest confusion in prices, whereas the deal might eventually fall through.

News Siftings

MEETINGS.

Stove Founders' National Defense Association, Chicago, May 9.

National Association of Stove Manufacturers, Chicago, May 10, 11.

Arkansas Retail Hardware Dealers' Association—Little Rock, in June.

Southern Hardware Jobbers' Association—Virginia Hot Springs, Va., June 6-9. Headquarters, New Homestead Hotel.

American Hardware Manufacturers' Association—Virginia Hot Springs, June 6-9. Headquarters, New Homestead Hotel.

Pacific Coast Hardware & Metal Association—Monterey, Cal., June 14. Headquarters, Hotel Del Monte.

Rhode Island Hardware Dealers' Association—June 22.

Retail Hardware Implement & Vehicle Dealers' Association of Oklahoma—Oklahoma City, July 10.

Michigan Retail Hardware Dealers' Association—Saginaw, August 9 and 10.

National Hardware Association—Washington, D. C., November 15, 16, 17.

American Hardware Manufacturers' Association—Washington, D. C., Nov. 15, 16, 17.

Washington Hardware Association—Seattle, Nov. 17.

Louis M. Frazer, Carl Koch, F. M. Nold, Volney Kirkpatrick and John B. Hubert are the incorporators of the Frazer-Koch Range Co., Indianapolis, Ind., capitalized at $25,000.

Ernst H. Huenefeld, Cincinnati, is constructing a plant for the manufacture of ranges and tinware. The structure is to be six stories in height and 300x350 feet in dimensions, to cost $150,000.

John S. Lowry, Robert M. Foster, R. P. Martin, T. J. Mitchell and Sterling C. Foster are the incorporators of the Foster Range & Stove Co., St. Louis, Mo., capitalized at $50,000, half of which has been paid up.

It is announced that the representatives of the molders of northeastern Pennsylvania, who met at Wilkesbarre, Pa., on March 24, were unable to treat with their employers owing to the arbitrary stand taken bv the latter.

John Kontny, the heating specialist and stove expert, 65-67 N. Desplaines street, Chicago, has been granted exclusive selling rights for the popular Globe stoves and ranges, made by the Globe Stove and Range Co., Kokomo, Ind., in Wisconsin, upper Michigan, North Dakota, South Dakota and Minnesota. The manufacturers of these stoves and ranges are extremely gratified with the large number of sales recorded within the last six months.

Jos. L. Baird, Jr., assistant cashier of the First National Bank of Vincennes, Ind., has succeeded Geo. Thompson as secretary-treasurer of the Star Shovel & Range Co., of that city. It is said that Mr. Thompson resigned because of ill health. His action in the matter was greatly regretted by his numerous friends in the hardware and stove business throughout the country, who trust and hope for his early recovery.

W. D. Sager, 38-40 Michigan street, Chicago, Ill., jobber in stoves and ranges, and the western agent for a great number of the Pittsburgh Stove & Range Co.'s goods, is having his entire warehouse renovated and repainted. The stock and fixtures are being replenished to meet the strong demand for his line of cooking and heating apparatus. Mr. Sager reports himself as being entirely pleased with the stove prospects for the present year.

The Silver Leaf Stove Polish Co., Indianapolis, Ind., are highly gratified by the very warm reception with which their goods have been received by hardware dealers. The Silver Leaf stove polish has been dubbed "the beautiful," and as such has been described as silver. It is sold for $2.00 per dozen. Their Black Beauty stove polish may be had by dealers for 75 cents per dozen, and is claimed to be as black as it can be. This firm guarantee these polishes to stick.

The fourth annual convention of the Southern Supply & Machinery Dealers' Association will be held at Savannah, Ga., at the De Sota Hotel April 25, 26, 27 and 28. It is announced that the hotel charges will be from $3.00 to $6.00 a day, and it is hoped that these reasonable rates will bring about a large attendance. All reservations for rooms should be made through Geo. V. Denny, Savannah, Ga., chairman of the entertainment committee. Members intending to be present should write Mr. Denny at once and advise him concerning their purpose. Round fare tickets may be purchased for 1 1-3 of the regular rate.

The Mountain State Gas Stove & Mfg. Co., Moundsville, W. Va., was recently incorporated, with a capital stock of $10,000, one-half of which has been subscribed, and the remainder of which will probably be taken, it is said, within the next six months. The plant is 60 by 26 feet in dimensions, and two stories in height. The concern will manufacture stove pipe, burners and fenders, galvanized eaves trough and ridge roll, water heaters and bottle tops. In conjunction with these articles, they will manufacture several types of gas heaters, some of which will be solely of sheet metal and others will have metal castings.

AN ENTERPRISING FIRM.

The J. L. Morris Stove Repair Co., 109-113 West Washington street, and 29-31 Desplaines street, Chicago, dealer in repairs for stoves, ranges and heaters, is handling the Sterling steel carpet sweeper. The case of this sweper is made entirely of cold drawn sheet steel, reinforced to make it strong and rigid. It is finished in colors of the best grade of bicycle enamel, and it is claimed not to be susceptible to heat, cold or rust, with no danger of warping out of shape. The broom action is constructed to do away with axels passing through the case, thus leaving the interior perfectly clear. The wheels are fitted with rubber tires and are vulcanized on and attached to the case, so that they are always in perfect contact with the brush roll.

The anti-raveler is a drawn sheet steel cap enclosing the end of the brush roll and bearing, and thus preventing the ravelings and hair collecting in the brush roll. These sweepers are made in four styles, and with each order for one dozen sweepers

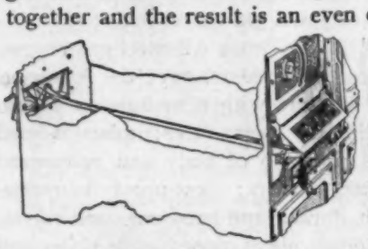
the manufacturers will supply, free of charge, a handsome steel display stand.

This firm is also handling the famous Black Silk stove polish, manufactured by the Black Silk Stove Polish Works of Sterling, Ill. Their stove repair department is very extensive and they boast that they can fill orders just as promptly as the most systematically arranged shelving, the most efficient help and the most careful selection can make possible.

MONARCH STEEL RANGES.

The Malleable Iron Range Co., Beaver Dam, Wis., are very proud of the great success with which their Monarch steel range, shown in the accompanying illustration, has met during the past year. They announce that their duplex draft damper, a sketch of which is shown herewith, is a feature worthy of special mention. The damper is arranged at both front and back of the ash pit under the fire box. With a single handle in front the damper doors are operated together and the result is an even combustion at both ends of the firebox; heat under the back lids on top same as front lids; uniform heating around oven, and saving of fuel that is wasted in shaking down ashes from a firebox when the front end of the box consumes two-thirds of the entire amount of fuel. The area of the two openings is said to be twice as great as a slide draft register across the entire left end of the range. It is fitted closer than a long slide draft can be made and is claimed to be convenient in operation, no matter how the range is located, as it shows from the front how much draft is being admitted at all times. It has proved a strong selling feature as it is the only draft of this construction on the market, and the intending purchaser of a range needs no long drawn out argument to be convinced of the merit of this construction.

Monarch Steel Range



Duplex Draft Damper.

The manufacturers will be pleased to send illustrated catalogues. When writing for same, kindly add: "Saw it in THE AMERICAN ARTISAN."

STOVE MEN WILL MEET.

Under date of March 28, Thomas J. Hogan, Auditorium Tower, Chicago, secretary of the National Association of Stove Manufacturers, sent out a call for the next annual meeting. The announcement reads as follows:

To the Stove Manufacturers of the United States:

Gentlemen: The thirty-fourth annual convention of the National Association of Stove Manufacturers will be held at the Auditorium Hotel, Chicago, on Wednesday, May 10, 1905.

I am instructed by the president, Mr. Peter B. Acker, to extend an invitation to every stove manufacturer, whether a member or not of the association, to attend this meeting and take part in all the proceedings except in voting.

Topics of interest to the entire stove fraternity will be discussed and every effort is being put forth by the executive officers to make this meeting interesting, instructive and profitable to all who may attend. You are therefore cordially urged to set aside your business cares for a few days and meet your brother manufacturers and discuss with them the ways and means that will best serve to advance the interests of the stove industry. The advantages of gatherings of this kind are significant to the small even more than to the large houses, and no equal expenditure of time and money can reasonably yield as large returns as participation at gatherings of, and informal intercourse with, gentlemen engaged in the same line of business. All who come may rely upon the sincerest welcome from the members of the N. A. S. M.

Non-members will be entitled to all the privileges of reduced rates for transportation and special hotel rates same as members of the association.

Representatives who are not members of firms, or officers of corporations, should produce credentials from their principals, addressed to the secretary of the association.

Transportation.—Reduced rates, amounting to a fare and one-third for the round trip have been conceded by the Trunk Line Association, the Central Passenger Association, the Southern Association and the New England Passenger Association from points in their territory, upon the condition that at least one hundred (100) persons having certificates attend the meeting. Certificates should be obtained from the agent of whom the tickets are bought, and if the starting point is outside of the territory where certificates are issued, a short trip ticket to the nearest point in that territory should be secured and a ticket to destination bought from that point. Certificates should be signed by the agent of whom the tickets are purchased, and they must be signed at the meeting by the secretary and vised by the special agent who will be present for that purpose, in order to secure the rebate on the return trip. In starting, full fare must be paid, and the return trip will be made one-third fare upon presentation of the certificate properly vised.

A charge of twenty-five cents will be made by agent for vising certificates.

HOTEL ACCOMMODATIONS.

Room without bath, for one person	$2.00 and upward
Room without bath, for two persons	3.00 and upward
Room with bath, for one person	3.50 to 4.00
Room with bath, for two persons	5.00 to 6.00

Rooms should be ordered immediately by mail, through the room clerk, in order to secure suitable locations, or through Secretary Hogan.

It is important and necessary, if you wish to be properly cared for, that you notify the hotel proprietors a little ahead of time to reserve for you such ac-

commodations as you require, and state whether you desire a room with or without bath, and about what price.

Please return to me, as early as possible, enclosed postal advising your intention of being represented, and by whom. Yours respectfully,

THOS. J. HOGAN,
Secretary.

AN HARMONIOUS MEETING.

Representatives of the Stove Founders' National Defense Association and of the Iron Molders' Union met in joint session at the Auditorium, Chicago, on March 28, 10 a. m., adjourning at 1 p. m., March 31. From beginning to end the meeting was entirely harmonious and the best of feeling prevailed on both sides. The matter of wages was not even broached, and the old scale will prevail during the ensuing year.

The question of apprenticeship did, however, come in for a great deal of argument, though this matter too was adjusted very satisfactorily. The Iron Molders' reported, that at the referendum vote of their union, conducted last fall, it was decided to reduce the number of workmen to five for every apprentice. The old agreement called for one apprentice to every eight men. The matter was referred by the manufacturers' committee to the annual convention of that body, which will be held May 9 at Chicago.

The following prominent stove founders represented the Defense Association: C. H. Castle, Comstock-Castle Stove Co., Quincy, Ill.; Henry Cribben, Cribben & Sexton Co., Chicago; E. W. Peck, Co-Operative Fdy. Co., Rochester, N. Y.; Lazard Kahn, F. & L. Kahn Bros., Hamilton, O.; Fred Will, Sill Stove Wks., Rochester, N. Y.; D. McAfee, Thomas White Stove Co., Quincy, Ill.; Jere Dwyer, Michigan Stove Co., Detroit, Mich., and Chas. S. Prizer, Prizer-Painter Stove & Heater Co., Reading, Pa. W. G. Henry and La Fayette Crowley of the Detroit Stove Wks., Detroit, Mich., were present but not as delegates.

The delegates of the Iron Molders' Union were: J. F. Valentine, Cincinnati, O.; J. Keough, Cincinnati, O.; Joseph Rollman, Columbia, Pa.; Chas. T. Nevius, Taunton, Mass.; Chas. Holt, Quincy, Ill.; Laverne Peterson, Detroit, Mich.; P. G. Hannigan, Chicago; Dan Shalkop, Reyersford, Pa.; H. E. Bryant, Providence, R. I.; John Frey, Ed. Iron Molders' Journal, Cincinnati, O.

AN ATTRACTIVE ADVERTISEMENT.

We are pleased to acknowledge the receipt of a wall card from the Detroit Vapor Stove Co., Detroit, Mich., showing their very extensive line of vapor stoves. Headed by the announcement that this is their tenth season and that they are still in the lead, the card follows with illustrations and descriptions of the different styles in which their Cabinet stoves are made.

Under each one of these illustrations is a short example of the work of a heavenly inspired poet with whom only a genius of the order of Hesiod, Horace, Goethe, Moliere, Shakespeare and our own Longfellow could be compared. We quote as follows:

"Our Detroit Hot Plate No. 44
Has its friends from shore to shore;
To be without one is no excuse,
As thousands are in daily use."

Again:

"Our latest cabinet, No. 33,
Should in every household be;
For it is sold from pole to pole,
And gladdens every heart and soul."

And still one more:

"As a perfect stove our No. 71
Is having a decided run;
This stove with oven guaranteed to bake,
In every state does first prize take."

Following their suggestion, we read the guarantee given below these bountiful bits of priceless poetry, and found that the Detroit vapor stoves are claimed to be absolutely safe with no smoke, no grease, no generating, no waste of gasolene, no smell, and no getting out of order. They are claimed to give a pure fire, to be simple, durable, and of many different designs and sizes.

This wall card will be sent to members of the trade upon application.

JEWEL GAS STOVES.

George M. Clark & Co. Division American Stove Co., Chicago, send us their hardware catalogue No. 62 showing their line of Jewel gas stoves for 1905.

The Jewel N. B. Never Break All-Steel gas ranges, with spring balanced drop doors, have the following features: Double burners with pilot light in ovens; removable brass tips on every valve; asbestos-lined ovens; galvanized steel top of body and galvanized steel tray under top burners; heat-proof floor protector; ebony finish, durable and handsome, and valves, front supply pipes, door plates, door handle plates and hinges polished and nickel plated. The top burners and tubes lift out. Small quadrants fitted to the oven doors make them perfectly rigid when open. These ranges will burn manufactured and natural, or gasolene machine gas.

The Jewel cast iron gas range, with spring balanced drop door, has double burners with pilot light in oven, removable brass tips on every valve; top burners and tubes which lift out; asbestos-lined oven; a steel spreader plate, attached to the removable oven bottom, distributing the heat in the quick-bake oven; a cast plate around the oven valves supporting the burners, and protects and stiffens the body; galvanized steel top of body and full width galvanized steel tray under top burners; sheet steel heat-proof floor protector, and valves, front supply pipes and door plate polished and nickel plated.

One of these catalogues will be forwarded the trade on application. When writing for same, kindly add: "Saw it in THE AMERICAN ARTISAN."

We are informed through E. H. Rider, former manager of the Stanton Heater Co., Martin's Ferry, O., and the present secretary of the Wellsburg Heating & Foundry Co., Wellsburg, W. Va., that the latter company are erecting a series of new buildings which will be used for an office, show room, pattern and tin shop.

The Hardware Record.

American Hardware Mnfr. Assn.
Pres., J. C. Birge, St. Louis, Mo.
Vice-Pres., C. W. Asbury, Philadelphia, Pa.; Geo. W. Corbin, New Britain, Conn.; Henry B. Lupton, Pittsburgh, Pa.
Sec.-Treas., F. D. Mitchell, 300 Broadway, New York.
Ex. Com., W. M. Trussig, New York; Sam'l Disston, Philadelphia; Wm. H. Hays, Pittsburgh; John E. Harbster, Reading; Geo. P. Hart, New Britain; W. M. Pratt, Greenfield, Mass.; E. G. Buckwell, Cleveland; E. B. Pike, Pike, N. H.

Arkansas Retail Hdw. Dealers' Assn
Pres., Hamp Williams, Hot Springs.
1st. V. P., T. B. Stewart, Newport.
2d V. P., R. P. Graham, Fordyce.
Sec.-Treas., C. E. Taylor, Little Rock.
Ex. Com., J. E. Maxey, Ozark; J. A. Plummer, Marianna; R. P. Allen, Van Buren; J. L. Davis, Magnolia, one year each; Frank B. Gregg, Little Rock; C. T. Rosenthal, Batesville; J. M. Pittman, Prescott, two years each.

Chicago Retail Hdw. Dealers' Assn.
Pres., H. E. Gnadt.
V.-P., W. B. Costello.
Sec., G. R. Lott.
Collector, John Hora.
Treas. J. L. Smith.

Indiana Retail Hdw. Dealers' Assn.
Pres., A. N. Shidler, South Bend.
1st V.-P., Chas. Frame, North Manchester.
2nd V.-P., Walter B. Creed, New Albany.
Sec.-Treas. M. L. Corey, Argos.
Ex Com., W. P. Lewis, New Albany; Chas. E. Hall, Indianapolis; J. L. Fulton, Portland

Illinois Retail Hdw. Dealers' Assn.
Pres., Frank B. McKenney, Rockford.
V.-P., F. Giessing, E. St. Louis.
Sec., L. Nish, Elgin.
Treas., Geo. A. Englehardt, Chicago.
Ex. Com., Frank B. McKenney, Rockford. L. Nish, Elgin; Geo. A. Engelhardt, Chicago; Chas. Johnson, Peoria; F. F. Porter, Chicago; Wm. Bittel, Peoria; H. G. Cormick, Centralia; L. D. Ray, Belvidere; W. T. Gormley, Chicago.

Indian Territory Retail Hdw. Assn.
Pres., A. L. Severance, Durant.
1st V.-P., Geo. W. Mowbray, Tulsa
2nd V.-P., W. J. Pettee, Oklahoma City.
Secy., W. G. Johnston, Oklahoma City.

The Inland Empire Implement and Hardware Dealers' Association.
Pres., O. L. Butterfield, Muscow, Idaho.
1st V.-P., E. E. Lucas, Davenport, Wash.
2d V.-P., Dana Childs, Spokane, Wash.
Sec., E. W. Ebenson, Spokane, Wash.
Treas., J. A. Fridaker, Spokane, Wash.

Iowa Retail Hdw. Dealers' Assn.
Pres., H. S. Vincent, Ft. Dodge.
V.-P., C. E. Haas, LeMars.
Sec., A. R. Sale, Mason City.
Ex. Com., T. A. Nichols, Burlington; D. S. Stauffer, Iowa City; E. C. Moore, Waverly; S. R. Miles, Mason City; U. S. Johnston, Tama; R. J. Breckenridge, Brooklyn; C. Clifford, Des Moines; F. C. Bollinger, Afton; W. J. Langfitt, Harlan.

Kentucky Retail Hardware and Stove Dealers' Association.
Pres., J. C. Frederick, Owenboro.
1st V.-P., U. S. Shacklett, Fulton.
2nd V.-P., George W. Buck, Louisville.
Treas., J. Steitler, Owensboro.
Sec., John R. Sower, Frankfort.

Michigan Hardware Association.
Pres., J. B. Sperry, Port Huron.
V.-P., Geo. B. M. Towner, Muskegon.
Treas., Henry C. Weber, Detroit.
Sec., Austin J. Scott, Marine City.
Ex-Com., S. Winchester, Jackson; J. G. Patterson, Detroit; E B. Standart, Holland; E. S. Roe, Buchanan; John Popp, Saginaw; W. P. Culver, Portland; K. S. Judson, Grand Rapids; J. H. Whitney, Merrill; E. J. Morgan, Cadillac; T. Frank Ireland, Belding.

Minnesota Retail Hardware Assn.
Pres., A. T. Stebbins, Rochester
V.-P., George Evenson, St. Peter.
Sec., M. S. Matthews, Minneapolis.
Treas., G. F. Duerre, Plain View.
Ex-Com., W. H. Tomlinson, Le Sueur; J. H. Smith, Minneapolis; H. R. Schroeder, St. Paul; F. W. Lucas, Litchfield; W. T. Cowing, Alexandria; C. H. Casey, Jordan; Louis Gewalt, Breckenridge; Chas. F. Ladner, St. Cloud; J. F. McGuire, St. Paul; A. T. Stebbins, Rochester; Geo. M. Evenson St. Peter.

Missouri Retail Hardware Dealers' Association.
Pres., Tayler Frier, Louisiana.
V.-P., Wm. H. Hahn, St. Louis.
Sec.-Treas., Frederick Neudorff, St. Joseph.
Ex. Com., F. A. Kannsteiner, St. Louis; W. C. Shoop, Richmond; O. W. Johnston, Marshall.

National Hardware Association.
Pres., S. A. Bigelow, Boston.
Vice-Pres., John C. Koch, Milwaukee.
2nd Vice-Pres., Brace Hayden, San Francisco.
Sec.-Treas., T. James Fernley, Philadelphia.
Ex. Com., R. M. Dudley, Nashville; W. S. Wright, Omaha; W. D. Taylor, Cleveland; F. Barker, Elmira, N. Y; J. D. Moore, Birmingham, Ala; P. E. Strauss, Boston.

Nebraska Retail Hdw. Dealers' Asn.
Pres., Max Uhlig, Holdrege.
1st V.-P., Albert Degner, Norfolk
2d V.-P., Frank Haecker, Friend.
3d V.-P., M. A. Hargleroad, Holstein.
Sec., Frank K. Barr, Lincoln.
Treas., H. J. Hall, Lincoln.

National Retail Hdw. Dealers' Asn.
Pres., W. P. Bogardus, Mt. Vernon, Ohio.
1st V.-P., E. M Bush, Evansville, Ind.
2d V.-P., H. F. Emery, Fargo N.D.
Sec., M. L. Corey, Argos, Ind.
Treas., A. T. Stebbins, Rochester, Minn.
Ex. Com., T. Frank Ireland, Belding, Mich.; S. R. Miles, Mason City, Ia.; A. H. Abbe, New Britain, Conn.; Frank A. Bare, Mansfield, O; C. H. Williams, Streator, Ill.

N. Dakota Retail Hdw. Dealers' Asn.
Pres., H. F. Emery, Fargo.
1st V. P., Martin Jacobson, Minot.
2d V.-P., H. H. Walther, Casselton.
3rd V.-P., O. I. Butler.
Sec., C. N. Barnes, Grand Forks.
Treas., H. T. Helgesen Milton.
Members Ex. Com., W. R. McIntosh, E. E. Elliott and W. H Pinkerton.

Ohio Hardware Association.
Pres., John F. Baker, Dayton.
V.-P., C. S. Johnson, Barberton.
Cor. Sec., Frank A. Bare, Mansfield.
Fin. Sec., A. L. Shearer, Dayton.
Treas., L. F. Stahler, Waverly.
Ex. Com., John Kramer Dayton, C. W. Jewell, Utica; W. S Perry, Zanesville; Frank W. Ingalls, Byran Will M. Crumrine, Salem; A. Boebinger, Cincinnati; John Spoerl, Hamilton; W. F. Jacobs, Youngstown.

Pennsylvania Retail Hdw. Assn.
Pres., Joseph M. Selheimer, Lewiston.
V-P., Geo. V. Thompson, Mt. Jewett.
Sec.-Treas., J. E. Digby, McKees Rocks.
Ex. Com., Joseph M. Selheimer, Lewiston; Geo. W. Hackett, Sunbury; J. E. Digby, McKees Rocks; James N. Kline, Williamsport; George L. Moore, Brownsville.

St. Louis Stove Dealers' Assn.
Pres., R. H. Myers.
1st V.-P., E. L. Wachter.
2d V.-P., G. M. Rinie.
Sec., Louis Boehl.
Treas., F. A. Kannsteiner.

Southern Hardware Jobbers' Assn.
Pres., W. M. Crumley, Atlanta, Ga.
1st V.-P., John Donnan, Richmond, Va.
2d V.-P., E. A. Peden, Houston, Texas.
Secy., C. B. Carter, Knoxville, Tenn.
Ex. Com., Bruce Keener, Knoxville, Tenn.; Chas. Ireland, Greensboro, N. C.; O. B. Barker, Lynchburg, Va.

Texas Retail Hdw. and Imp. Assn.
Pres., S. L. Erwin, Honey Grove.
Secy. & Treas., J. W. McManus, Waxahachie.
1st V.-P., R. L. Penick, Stamford.
Dir.: T. T. Clark, Ennis; H. S. Allen, Calvert; W. A. Spangler, Bonham; D. B. McCall, Waxahachie; W. M. Gunnel, Charles Hutchins, Sam Marcos.

Wisconsin Hdw. Dealers' Assn.
Pres., Ralph Burtis, Oshkosh.
V.-P., E. Tietgen, Manitowoc.
Sec.-Treas., C. A., Peck, Berlin.
Ex. Com., W. H. Busse, Milwaukee; E. R. Ramm, New London; Jas. Murphy, Racine; H. J. Krueger, Neenah.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 36 to 41 inclusive.

Joe Foster is about to open up a hardware store at Groves, Mo.

A. H. Heyden & Co. are a new hardware concern at Benson, Neb.

A. M. Lawrence, Carthage, Ill., has opened up a hardware store.

Tyrrell & Babb have engaged in the hardware business in Keck, Kan.

Adams Baxter is about to open up a hardware store at Wellington, Colo.

John Shumaker has opened up a new tin and hardware store at Butler, Ohio.

J. W. Thompson of Rhodes, Ia., has sold his hardware business to Hale Bros.

The Conway Hardware Co. has opened up a hardware store at Conway, S. C.

The Nelson Hardware Co. are erecting a three-story building at Roanoke, Va.

Harley A. Klingenspiel has sold his interest in the Flora Hardware Co., Flora, Ind.

C. L. Maxwell has sold his hardware business in Scotland, S. D., to Beinbold Bros.

A. C. Campbell is the successor to the Ridgeway Hardware Co. at Ridgeway, Ohio.

W. T. Trainer has sold his hardware business in Burt, Ia., to Patterson & Schryver.

Will Isham has purchased the hardware stock of the late Asa Martin at Butternut, Mich.

Barney Lyons has sold his hardware business in Everest, Kan., to H. A. Price & Co.

Oaks & Ruh have sold their hardware business in Hartford, S. D., to Oaks & Babcock.

Compton & Co. succeed Compton & Gaunt in the hardware business at Earl Park, Ind.

It is announced that Harry Filler will open up a hardware business at Spokane, Wash.

C. Duckworth has sold his hardware business in Cedar Bluffs, Kan., to H. Richardson.

F. J. Dean has sold his hardware and undertaking business in Union, Ia., to L. R. Upton.

S. M. Horner has sold his hardware store and stock to Martin Bros. at Middlepoint, Mich.

W. L. Duff has again engaged in the hardware and implement business in La Cygne, Kan.

Holmes Bros., Red Falls, Minn., have bought the hardware store of Otterness & Edsrom.

W. H. Asher, Coon Rapids, Ia., has begun work on a prospective hardware store in that town.

Builock & Kirkpatrick will engage in the hardware and implement business in Ramona, I. T.

Craig & Hendrix have purchased the hardware business of Smith & Riley, in Gainsville, Mo.

Calvert Bros., Hillsboro, O., will continue the hardware and stove business of Wolf & Calvert.

The Westfall-Moore Hardware Co., Lafayette, Ind.,

have changed their name to the Moore & Kemple Hardware Co.

Albert Wilke has sold his hardware and furniture business in Ravanna, Neb., to O. L. Miller.

A. Radley has purchased the hardware and saddlery business of Thos. J. Edington, in Ayr, Neb.

In the recent fire in Colony, Kan., the hardware store of E. R. Farewell & Co. was damaged.

Frank Sharrett has sold his hardware business in Crab Orchard, Neb., to Murphy & Kavanagh.

Heitzman & Many have succeeded to the hardware business of Heitzman & Critz, in Riverside, Ia.

Campbell & King have succeeded to the hardware business of Feltus & Campbell, in Oelwein, Ia.

C. R. Latto has sold his hardware and implement business in Sylvan Grove, Kan., to Hill & Sons.

Himes & Phillips Bros. have succeeded to the hardware business of F. P. Himes, in Wilson, Kan.

Mass & Pankratz have succeeded to the business of the Pankratz Hardware Co., in Hillsboro, Kan.

L. W. Cockrun, Kirksville, Mo., has purchased the hardware store formerly owned by Wolter Bros.

The hardware store of J. M. Dougherty, at Coleman, Mich., was totally destroyed by fire on March 15.

Daniel Bros. have let the contract for the erection of their new hardware store at Glenwood, Iowa.

Allie Parker and H. E. Mustard are about to embark in the hardware business at Moorhead, Iowa.

J. L. Frazer & Sons have been bought out by W. A. Harper, dealer in hardware at Longmont, Colo.

C. Patten has purchased the business of the Lewisville Hardware & Furniture Co., in Lewisville, Ark.

D. L. Pritchard has purchased the entire stock in the hardware store of J. F. Verreau at Grafton, N. D.

W. F. Wagner has purchased an interest in the hardware business of Aug. M. Wagner, in Stanton, Neb.

N. G. Nicholson has been succeeded in the hardware business in Medford, Ore., by Nicholson & Platt.

Harlan Stauffer and Zena Ecklenarger have sold their hardware store at Deshler, O., to Andrew Batson.

W. A. Zollman has sold his hardware business at Pulaski, Ia, to K. T. and Wm. Hotchkiss of Bloomfield, Ia.

The dissolution is reported of the hardware firm of Mullin & Wilson, in Hydro, Okla. Mr. Mullin retires.

A two-story addition is being built on the rear of the C. L. and Theo. Bering Hardware Co. at Houston, Tex.

C. G. Empfield has purchased the hardware and furniture business of Walter J. Woods, of Broken Bow, Neb.

It is announced that the hardware firm of Marshall, Westcoat & Co., at Charleston, S. C., have gone into liquidation.

Crandall & Renstrom have sold their hardware and implement business in Overton, Neb., to Maddox & Francoeur.

W. T. Kidwell has been succeeded in the hardware and implement business in Barnett, Mo., by Kidwell & McDow.

Beasley & Miller have moved their hardware and plumbing business from 507 to 610 N. Broadway, Pittsburg, Kas.

Jno. S. Caple & Son, Alma, Mich., have changed their title to the Caple-Soule Hardware Co., capitalized at $20,000.

Peter Hove has purchased the hardware store of E. E. Wade & Co., and will open up a hardware store at Stanhope, Ia.

Williams & Crahn have succeeded to the hardware and implement business of Brustkern, Williams & Co., in Emerson, Neb.

J. R. Parker and J. F. McBride are the incorporators of the Planter's Hardware Co. of Cheraw, S. C., capitalized at $5,000.

Matthews & Son have succeeded to the hardware and furniture business of Matthews & Hawkins, in Eureka Springs, Ark.

H. J. George, Virginia, Minn., has purchased a commodious building in that city for the enlargement of his hardware store.

The West & Holmes Hardware Co., Hutchinson, Minn., have purchased the hardware stock of West & Son of the same town.

A. P. Hannan and J. M. Reynolds are the incorporators of the Pearisburg Hardware Co., Pearisburg, Va., capitalized at $15,000.

The Union Hardware Co., at Bellefontaine, Ohio, has bought out the hardware and stove department of Kelly & Co., in the same town.

The Detroit Rifle Co., Detroit, Mich., have been incorporated with a capital stock of $30,000, for the manufacture and sale of firearms.

It is announced that Mary L. Adams, a Rome, N. Y., dealer in hardware and tinware, has scheduled a voluntary petition in bankruptcy.

It is announced that the stockholders of the Knapp & Cowles Mfg. Co. have voted to liquidate. This company was located at Bridgeport, Conn.

Richard Schell of the firm of Schell & Wade, Duluth, Minn., has disposed of his interest in the hardware business to his partner, F. H. Wade.

It is announced that the hardware firm of Loveland & Chisholm, Ogdensburg, N. Y., has been dissolved, Mr. Chisholm taking over the business.

Fire on March 21 damaged the Greensburg Hardware & Supply Co., at Greensburg, Pa., to the extent of $3,000. The loss is fully covered by insurance.

Orville O. Carpenter, Myrtle Carpenter, Bert Souder and Ethel Souder are the incorporators of the Carpenter & Souder Hardware Co., New Castle, Ind.

The hardware store of D. C. Medman at Sumner, Ia., has been sold twice during one week. Medman first sold the stock to C. S. Jackson of Waukon, Ia., who took in part payment an island containing 918 acres of land. After owning the stock for one day,

Jackson traded it to Wells, a Chicago speculator, who now has it for sale.

Rev. Fred Hibbard of Buffalo and Tower City, N. D., has abandoned the ministry, it is said, and will henceforth conduct a hardware business at Erie, N. D.

The Schweers Hardware Co., at Shawano, Wis., will build an addition of 38 feet to the rear of their hardware store. The addition is to be used as a tinshop.

The hardware store of Chas. Bogardus at Morristown, N. Y., was destroyed by fire on March 16, entailing a loss of between $3,000 and $4,000, covered by insurance.

For the fourth time within seven months, the Lowell Hardware & Grocery Co., at Janesville, Wis., was broken into by burglars on March 24, and the cash drawer looted.

C. F. Brubaker has resigned his position with the Freeport Hardware Co. of Freeport, Ill., to accept the managership of the E. & W. clothing house of the same town.

Frank B. Doherty and Geo. E. Dawson will open up a hardware and furniture store at Rosebush, Mich. The firm will be known as the Rosebush Hardware & Furniture Co.

Argenbright Bros., formerly of Versailles, Mo., have erected a large building at Sedalia, Mo., which they will use for the hardware business which they are just about to open up.

The Standard Tool & Novelty Co. have recently been incorporated with a capital stock of $5,000 at St. Louis, Mo. Ed. T. Goodberlet, Myer Cohen and I. Cohen are the incorporators.

The cutlery store of Sydney Lyman & Co., 237 Broadway, New York City, was broken into by burglars on March 18 and knives and manicure sets to the value of $2,000 were stolen.

The hardware and furniture business of Rockwell & Armstrong at Broken Bow, Neb., has been sold to J. Davis of Clarks, Neb., who will conduct the business in the former town in the future.

It is announced that the creditors of the Muskegon Cutlery Co., Muskegon, Mich., have filed a petition in bankruptcy. The petitioning creditors show claims which aggregate approximately $12,000.

It is announced that the Ohio Nut & Bolt Co. is the successor to the Ray Automatic Machine Co., Berea, Ohio. The management, however, remains the same, A. A. Boles being president and manager, and E. M. Reublin continuing as secretary and treasurer.

W. B. Costello, the enterprising hardware dealer who has two retail stores in the aristocratic residence district of Chicago, has removed one of his stores from 596 E. 43d street to the commodious double store at 556-558 E. 43d street, where he has a beautiful room with a showy front. His stock is replete and up-to-date. He still continues the main store at 361 E. 43d street.

The executive committee of the Southern Hardware Jobbers' Association met at the Hotel Imperial, Knoxville, Tenn., on March 22, with five of the eight members of the committee present, as follows: W. N. Crumley of Atlanta, Ga., president; C. B. Carter of Knoxville, Tenn., secretary-treasurer; C. B. Barker of Lynchburg, Va.; Charles B. Ireland of Greensboro, N. C., and Bruce Keener of Knoxville, Tenn. After arranging the program for the annual meeting, the committee reassembled and discussed the prospects for the convention, which are said to be brighter than for many years.

The Peck Edge Tool Co., at Cohoes, N. Y., was reorganized recently with Joseph A. Powers of Troy, N. Y., as president; Albert W. Powers of Troy, N. Y., as director; Thos. O'Connor of Waterford, N. Y., as secretary, and D. J. Halpin, Waterford, N. Y., as treasurer and general manager. It is said that ample capital has been provided to manufacture and furnish promptly edge tools of the best quality. Among other goods for which they are noted are their shingling hatchets, lathing hatchets, claw hatchets, half hatchets, bench hatchets, barrel hatchets, board axes, boys' and hunters' axes, home axes, Yankee pattern axes, Michigan pattern axes, firemen's and ice axes, home, shop and railroad adze, mattocks and pick axes.

A NEW GAS RADIATOR.

Carl Eickemeyer, Yonkers, N. Y., is the inventor of a new gas radiator which he has dubbed the Eickemeyer gas radiator No. 3. As interesting features of this stove, it is announced that the triplex burner has a heat capacity of about 1,300° F., which gives a temperature in the drum of about 800°. One cu. ft. of air per minute taken in below the burner at 30° and raised in temperature to 800° increases in volume to 2.54 cu. ft. in passing through the drum.

The drum radiates one quarter of the heat, and the radiating tubes radiate the remainder of the heat taken up by the air in expanding. In a like manner, the drum reduces the heat to its original volume and temperature at the end of the radiator, where it is taken off by an exhaust pipe connected to a flue or window to the outer air.

The radiator is simply a heating machine which gives nothing into the room except the total heat units of the air and gas flame of the burner; it takes off by a flue the products of combustion, i. e., saturated air at its original volume and temperature.

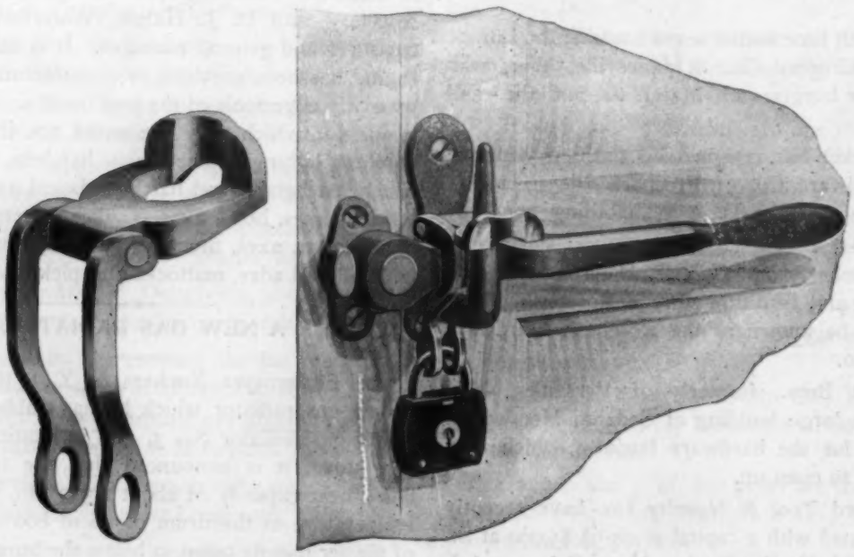
Starting the radiator in the morning with a room 30 feet square at zero degree, this radiator, it is claimed, will raise the temperature to 70° in one hour, after which one-third to one-half the amount of gas is consumed to keep the temperature at 70° for the remaining hours of the day, according to the number of windows in the room and other peculiarities of the environment.

It is claimed furthermore, that these radiators cannot be exploded, and that there is no danger from accidents by asphyxiation. A small amount of cooking can be done by removing the top plate.

These heaters are manufactured in four sizes for all services of heating by Ad. Danner, Yonkers, N. Y. When writing for information kindly add: "Saw it in THE AMERICAN ARTISAN."

THE SAFETY LEVER LATCH.

The Safety Lever Latch Co., 2140 Seventh avenue, New York city, is placing upon the market the Safety Lever Latch shown in the accompanying illustration. This latch is patented and is designed for use on refrigerators, ice houses, freight cars and similar structures. No screws, screw drivers, screw eyes or chains are required. In order to lock the door, it is simply necessary to slip the plate of the latch over the free end of the hook, raising on the lever while the shanks are passed between the door and the lever, partially embracing the latter. Afterward the free ends of the shanks can be locked together by a padlock, making it impossible to disengage the lever.



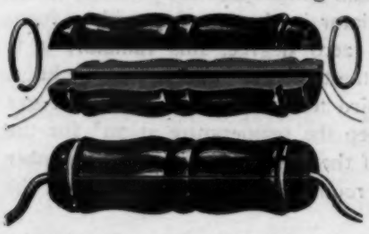
Safety Lever Latch.

They are made in two different finishes—nickel plated and brass—and are not only very attractive, but simple and durable.

The trade is requested to write for circulars describing these latches.

THE SLIP-ON-HANDLE.

Wm. I. Lyon, Waukegan, Ill., obtained a patent last fall for a new device consisting of an original wooden bucket handle, shown in the accompanying illustration. This handle is split through the center and bound at each end by split steel rings. Through the center runs a groove in which the bail rests. It will replace all broken handles on tubs, pails, tea kettles, cooking utensils, food choppers, wringers, washing machines, ice cream freezers, etc. On galvanized iron ware, the wire bails never have a wood handle, and it is hard to carry much with the small wire handles. By a very simple process, the slip-on-handle can be attached to these kitchen utensils, and the sharp pain caused by carrying around a kettle or other article by a wire handle can be obliterated. Hot wire handles on cooking utensils can be satisfactorily treated in the same manner.



Handle Open and in Position.

A sample and price, together with other literature, will be sent upon request. When writing for same, kindly add, "Saw it in the THE AMERICAN ARTISAN."

"NEVER-BREAK" WARE.

The Avery Stamping Co., Cleveland, O., manufacturers of steel shovels, scoops and spades, enameled ware and garden tools offer the trade four distinct grades of shovels as follows: "Never-Break," National, Buckeye and Mohawk. These shovels and spades are guaranteed to be first class in every respect including quality, style, finish, dimensions, weight, etc.

In the first and second grades of shovels, the "Never-Break" and National, genuine crucible high carbon steel is used. The construction of these patented smooth back shovels and spades is claimed to be different from all others. Instead of back and front straps for the socket, there is a perfectly cylindrical enclosure for the lower end of the handle. This socket is re-enforced by a steel plate welded on the back of the blade with an obviously resulting strength. The socket does not come in actual contact with the materials to be handled, and there is consequently no wear on that part of the shovel, nor is there any diminution in the efficiency of the tool as long as the blade itself has the requisite working edge. Mathematics, it is said, play an important part in the construction of these shovels, as the bend instead of being four inches above the blade, as in other plain back shovels, is immediately over same, and the difference in the location of the fulcrum or bearing point for the forward or lifting hand of the operator means a correspondingly greater leverage power. It is claimed that this gain is practically 40 per cent. In other words, whereas 25 lbs. pressure would be necessary in the handle of other plain back shovels to balance a 40-lb.

load on the blade, this firm maintains that the same result is obtained by placing 15 lbs. pressure on the handle of their patented plain back shovels.

GREEK HEROES AND ENAMEL WARE.

A great many ages ago, Ajax, the Herculean hero of the Trojan wars, saw fit to defy the omnipotent power of Jupiter, the god of all gods, the thunderer. The Jacob J. Vollrath Mfg. Co., 175 Lake street, Chicago, have not as yet decided to defy the ethereal Jupiter in a contest for excellence of enamel ware, but they do believe that just as Ajax defied all power terrestrial and was victorious, just so, their Ajax enamel ware can defy successfully any other ever produced in this or in any country. They announce that they, "the pioneer enamel ware manufacturers," have made this addition to their large assortment because of the very heavy demand from retailers and consumers for a better wearing, a better selling and a more attractive gray enamel ware. It is their latest addition to the Vollrath wares called by them the "Ware of Quality." The ware is said to be a beautiful light gray in appearance with a uniform peppered mottle inside and outside giving it the beauty of china and the durability of steel. The manufacturers have gotten up a sample lot which they call assortment C and which contains 60 pieces, thus giving the retailer an opportunity to try their ware at a small investment.

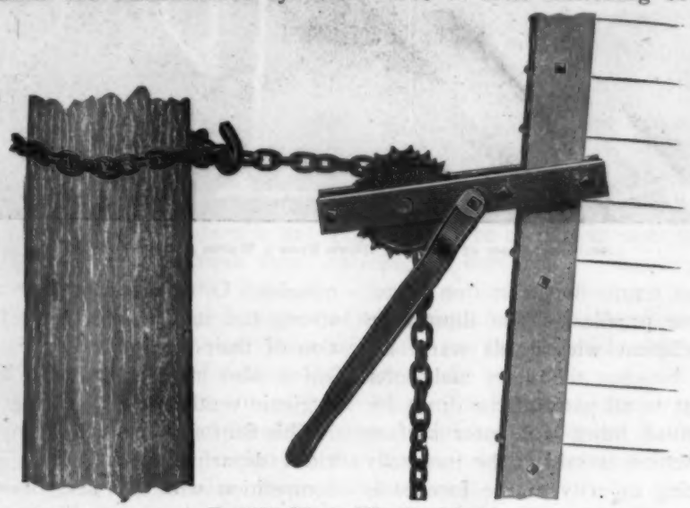
Trade Mark.

THE FRANKLIN WOVEN WIRE STRETCHER.

The Franklin Woven Wire Stretcher, shown in the accompanying illustration and manufactured by the Stowell Mfg. & Fdy. Co., South Milwaukee, Wis., has more than fulfilled the anticipations of the manufacturers by the very hearty welcome with which it has been received by members of the trade. The chain running between the two wheels of the stretcher gives a direct pull, and has no side draught. The wheels are so arranged that when the tooth of one wheel is released the other wheel catches, avoiding the danger of the handles flying back, and giving a steady, continuous pull. It is claimed to be self-locking, to lock at any point, and to be quick acting. The weight of the clamps, chain and stretcher is only 35 pounds.

The manufacturers recently closed a contract with C. F. Smith & Co., De Kalb, Ill., the former owners of the patent, by which they become the sole manufacturers and distributors for a term of years.

This firm manufacture a large line of other goods, including door hangers, hot air registers, hay tools, tackle blocks, chain belts, ventilators and brass, gray and malleable iron castings to order.



Franklin Woven Wire Stretcher.

FILTER PRESS PLATES

Harrington & King Perforating Co., 212 N. Erie street, Chicago, send us a booklet calling attention to their particular class of perforations, especially adapted for use in sugar refineries, glucose works, beet sugar plants, rice mills and kindred industries.

Their perforated plates of brass and copper for centrifugal machines or extractors can be made of any width to 30 inches and any length required. A special quality of brass is used, of great tensile strength, designed particularly for this service; the plates have narrow margins all around, and are made to exact dimensions and fit for immediate use in machines.

Their filter press plates, made of brass, copper, bronze, steel and iron, black and galvanized, are cut square, and exact to size required, and furnished with center and corner holes or plain as ordered. The plates are made round or square, of any dimensions up to 48 inches. The round plates may have center holes but no margin. All are punched leaving a smooth surface, are machine straightened, and perforated to any size of holes desired.

One of these interesting booklets will be sent to dealers on application; when writing for same, kindly add: "Saw it in THE AMERICAN ARTISAN."

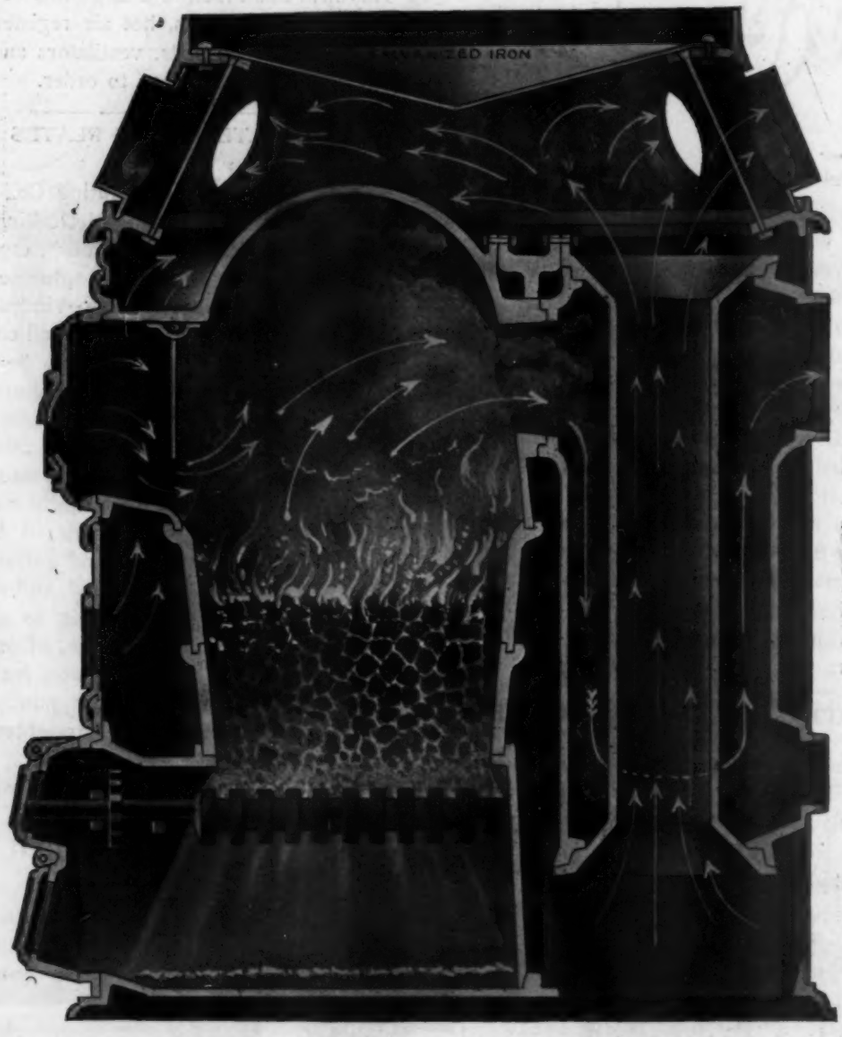
Heating and Ventilating

THE CROWN FURNACE.

The March-Brownback Stove Co., Pottstown, Pa., are manufacturers of the Crown low down furnace, a sectional view of which is shown in the accompanying illustration. This furnace has met with marked success wherever sold, and as its makers are continually adding to the original devices which made the furnace desirable at first, it still continues to meet with favor at the hands of the trade.

This firm is the first to construct an all cast iron furnace with a vertical return flue, cast iron drum, and to make the same practical. The illustration shows the drum attachment with inside warm air flue and buffer plate between the inner and outer walls for directing heat to all parts of the drum for radiation. The continued inner and outer surface on this drum for radiation is said to be unusually great, hence, the heating capacity of the furnace is unusually great. When furnished for burning soft coal, a smoke curtain and gas burner attachment are supplied. The furnace is circular in form to meet the wishes of dealers preferring this form to the oval, but the oval form is furnished if desired. It is designed to burn hard or soft coal or coke. A handsome catalogue describing this furnace and their other products will be furnished the trade upon application.

When writing for same, kindly add, "Saw it in THE AMERICAN ARTISAN."



Sectional View of the Low Down Crown Warm Air Furnace.

FARQUHAR FURNACES.

We are in receipt of a very unique, artistic and expensive catalogue describing the Farquhar furnace, manufactured by the Farquhar Furnace Co., of Wilmington, O. This catalogue not only gives very strong and feasible arguments for the general adoption of their particular brand of heating apparatus, but it also includes valuable information regarding hygienic ventilation of all houses.

This firm claim that the Farquhar furnace is a decided departure, and that it is offered in quality-competition with the best of steam and hot water heaters, as it is superior in maintaining correct sanitary conditions indoors. They claim furthermore, that this furnace produces a limited fire, which, however, is always of sufficient volume; that it is moderate in

intensity as to prevent clinkers, red hot metal or scorched air.

The fire is self regulated, controlled by the force of its own heat, maintaining the desired heat steadily and preventing overheats. Moreover, it is claimed that the fire is lasting; that it needs attention usually but once in twenty-four hours; that the fire is economical, inasmuch as the heat is limited to the supply which is needed to warm the house; that there is a positive flow of heat to the windward rooms, and that there is an absolute and permanent security against the possibility of the leakage of poison through the walls of the firebox, and against the smoke that damages the decorations and furnishings of the house.

This furnace is of one piece of welded steel, and each is fitted with the Farquhar self-regulating furnace attachment. It is built in the horizontal fashion and is thus disposed longitudinally instead of vertically. The firebox and air backs are rectangular in plan instead of round. The galvanized iron sheets of the casing are not slipped over iron rings and behind door castings as in the ordinary way, but are seamed together to exclude all cellar air and dust from the air circulation. The casing is held to the furnace front by a heavy steel hoop, and a thick padding of asbestos fiber keeps the casing cool. Any fuel, soft or hard coal, coke or rough wood or other combination may be used, and the necessary adjustment for the various grades of fuel is made automatically by the self-regulating device.

The heater is also easily arranged for gas burners, and this, too, has the advantage of automatic control.

After some apropos remarks on ventilation, the catalogue concludes with a series of very strong recommendations for the hygienic and economic value of the Farquhar furnace.

Copies of this very desirable catalogue will be forwarded all members of the trade upon application.

BOYNTON FURNACES.

The Boynton Furnace Co., 207-209 Water street, New York city, and 147-149 Lake street, Chicago, manufacturers of warm air furnaces and steam and hot water heaters, are about to send to the trade the new catalogue and price list for 1905. In the introduction to this catalogue they will say that Boynton furnaces have been known for over sixty years in almost every town, village and hamlet in the country. They claim that their assortment of furnaces is more extensive and complete now than ever before, and that there is scarcely any kind or size of first-class furnace that cannot be found or duplicated in their line.

Boynton's Improved Niagara.

Their list includes the Patriot furnace, for hard coal; the Patriot furnace, for soft coal; the Crusader, for hard coal; the Crusader, for soft coal; the Climax furnace, for hard or soft coal or natural gas; the steel dome double return flue furnace; the steel dome single return flue furnace; the improved new gas tight furnace; the Champion brick set wood-burning furnace; the Champion portable wood furnace; the Champion extra wood-burning furnace, and the Admiral hard coal and wood furnace.

Construction of Fire Pot.

They also manufacture combination heaters and the Improved Niagara, which is shown in the accompanying illustration. All the pots and bodies of this furnace are corrugated and steel plate or cast iron radiators are furnished as desired. It is fitted with Boynton's economical draw-center grate. It is claimed that the construction and weight of this furnace make it one of the most desirable low-priced furnaces on the market.

Their new Admiral hard coal and wood furnaces are fitted with the fire pot which is shown in the accompanying illustration. This fire pot is square at the bottom and allows a large amount of grate surface. The manufacturers claim that this is a very desirable feature, as a furnace having a large amount of grate surface in proportion to the diameter of the top of the fire pot is in great demand. The corners of the pot, being almost perpendicular, permit a rapid clearance of ashes, thus giving quick radiation, while the corrugated surface of the pot adds to the efficiency and increases its durability.

The ash pit is large and convenient for the removal of ashes and is fitted with Boynton's improved triangular grates, any bar of which may be removed without disturbing the others bars or taking the grate out of the base. The front of the ash pit is fitted with a patented clutch engaging the shaker in such a manner that the shaker cannot be removed unless the grate bars are level.

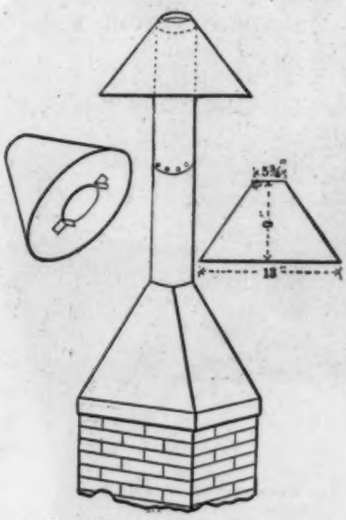
Catalogues describing this furnace and their other furnaces more completely will be sent to all members of the trade upon application. When writing for same, kindly add, "Saw it in THE AMERICAN ARTISAN."

Tinshop

CHIMNEY CAPS.

TO THE AMERICAN ARTISAN.

I send the following description of cap to be used on pipes of smoky chimneys. Instead of extending pipe upwards to the level of roof or building, as the case may be, use the cap with a few feet of pipe and the chimney will not smoke. The cap should be five



and three-fourths inches diameter at the top, nine inches high and thirteen inches diameter at the base. The diagram shows how it is fastened to pipe. Brother Tinks, if you have never used the above, give it a trial, and you will be pleased with the result.

Jamestown, N. Y., Dec. 20, 1904. "XPERT."

AN ENTERPRISING FIRM.

John McVoy & Co., with offices and warehouse at 21-23-25 Michigan street, Chicago, Ill., are large handlers of black and galvanized sheets, tank and flange steel, cold-rolled shafting, cold-rolled strip steel, tin and terne plates, sheet copper and brass, steel ceilings, metals, corrugated iron and steel, and tinners' supplies. Their stock lists are always very extensive and they make it a special point to be prepared for any emergency orders which may come from dealers who are either rushed for material or who desire very close spot cash prices.

Their guaranteed charcoal iron roofing tin is stamped with the mills' guarantee of ten years on IX and five years on IC. McVoy's Uncle Sam charcoal iron is used by the United States government; it is 40-lb. coated. McVoy's old method guaranteed coated steel plate, 40-lb., is claimed to be the finest steel plate in the market.

Their stock list of tin and terne plates includes coke and furnace pipe tin, dairy stock, three grades of charcoal, ternes, continuous roofing, weather-proof brand, Reliable brand and McVoy's old-style double lock seam.

Their stock list of sheet copper contains cold-rolled patent leveled cornice copper, soft sheet copper, cold-rolled patent leveled sheet copper tinned on one side and not polished, tinned on one side and polished on one side; and copper boiler bottoms.

This firm recently published a very attractive and expensive catalogue, which they would be pleased to send to members of the trade upon application.

When writing for same, kindly add, "Saw it in THE AMERICAN ARTISAN."

SANITARY SINK STRAINERS.

A small booklet gotten out by F. H. & E. B. Vrooman, 325 Dearborn street, Chicago, is headed "A Woman's Invention for Women." We have gotten so accustomed to seeing advertisements with headings of a similar nature in the daily newspapers that, when the booklet arrived, we were tempted to look modestly in another direction—in that we were of the sterner sex. We thought better of our resolution, however, and a perusal of the little booklet showed that our original assumption was wrong and that all men in hardware lines would and should take a deep interest in it.

Strainer Disconnected.

Strainer in Operation.

It describes the Vrooman sanitary sink strainer shown in the accompanying illustrations. It is claimed that this ingenious arrangement keeps the scraps out of the sink, the sink pipe from stopping up, the scraps and grease together so that they may be thrown out, the grease from collecting in the sink, the hands clean, the hired girl, the kitchen clean and one's temper sweet. It is claimed to save the scraps, to let the water run off, to save the housekeeper work, plumber's bills, and time, trouble and soap.

This strainer can be attached to the corner of the sink with a tack, where the sink has a wooden casing on the top; otherwise, the stand is used, in which case the stand clasps firmly on the bottom of the strainer. In either case, it is easily removed to empty the refuse.

A booklet describing this strainer will be furnished to all dealers upon request. When writing for same, kindly add, "Saw it in THE AMERICAN ARTISAN."

CONDUCTOR PIPE AND EAVE TROUGH ADVANCED.

As has been expected, the price on conductor pipe and gutter has been advanced approximately 12½ per cent. As the readers of THE AMERICAN ARTISAN have had ample notice of this contemplated advance, it is to be presumed that they have taken advantage of

the lower prices ruling prior to the new figures which are now in effect.

There has been some changes in the territory as well, Wisconsin having been taken out of the eastern territory, and now classed in the central territory, the one exception to this rule is that of the city of Milwaukee, which is classed in the eastern territory, taking the same price as Illinois.

The eastern territory now includes Illinois, Indiana, and all states north of the line drawn from Newport News, Va., following the line of the Chesapeake & Ohio Railroad from Richmond, via Lynchburg, to Clifton Forge, Va., and the Ohio River (including Norfolk, Va.) to the Mississippi River, and points north of the Ohio River including the lower peninsula of Michigan. Point east of Mississippi River to Illinois-Wisconsin boundary line.

The central territory includes the state of Kentucky, Missouri, Iowa, Wisconsin and that part of Minnesota lying south of the Minneapolis, St. Paul and Omaha Railroad from a point on the Iowa state line, near Worthington, to Minneapolis, and south and east of the St. Paul and Duluth Railroad from Minneappolis to Duluth; also the cities of Sioux Falls, S. D., a portion of the state of West Virginia and Virginia south of the C. & O. Ry. is also included in this territory, and the cities of Charleston, S. C., and Savannah, Ga.

The southern territory consists of the states of Mississippi, Alabama, Georgia, Florida, North Carolina, South Carolina and Tennessee, except the cities of Charleston, S. C., and Savannah, Ga., and including the cities of New Orleans, La.; Galveston, Texas, and Houston, Texas.

The southwestern territory consists of the states of Louisiana, Arkansas and Texas, except the cities of New Orleans, La.; Galveston, Texas, and Houston, Texas.

In addition to the above, there is no freight allowance on shipments of less than 500 lineal feet. Shipments beyond the Missouri River, freight is allowed only to the Missouri River.

There is also a new ruling as regards nested pipe. Nested prices on conductor pipe are not allowed unless every joint in the crate will nest, and that portion of it that will not nest is charged at the not-nested price.

EUREKA MAIL BOX.

The Smith Bros. Mfg. Co., Indianapolis, Ind., manufacture a line of rural free delivery mail boxes, the best known of which is probably Smith's National. Smith's Eureka is also a very popular box. It is very much similar to the National in appearance, but is made with a straight back, and is attached to the post without the extra brace attachment.

It is also equipped with Smith's improved signal, which, being raised by the cover, when the carrier raises the cover to drop in the mail and remaining in that position until lowered, after the mail has been removed, makes it a most perfect signal. The signal on this box is equipped with a beautiful flag, in colors, same as the signal on the National and the box is given a heavy coat of aluminum paint.

The Eureka is also equipped with the same automatic brass spring hasp as is used on the National and with this hasp, which is the most perfect and unique latch ever devised, the cover being perfectly secure.

Like the National, the Eureka is also a superior mail box in every particular, beautiful in appearance, substantially constructed, and operates most perfectly. The material used in its construction is also extra heavy galvanized sheet steel. Its size is 6x18 inches.

CHAMPION SEWER ROD.

The Geo. W. Diener Mfg. Co., dealers in tinners' and plumbers' tools, 215-217 E. Lake street, Chicago, have recently been assigned all rights on the Champion sewer rod which is shown in the accompanying illustration. As especially meritorious features, the firm point out the spear point, which, with a slight forward and backward movement, and with very little labor on the part of the operator, will, it is claimed, work its way into and around the worse cases of congested sewers. The manufacturers are setting very attractive prices upon this article, and claim that all plumbers will soon find them an absolute necessity.

Champion Sewer Rod.

This firm are also manufacturers of the Torrid tinners' furnace, which it is claimed will save tinners, the original cost in one year's time in the economical use of gasolene alone. It is said to be noiseless with no odor and no smoke. It coppers both indoors and on the roof, and has a very large range of heating.

They will be pleased to furnish members of the trade with circulars describing their line of combination pliers, combination wrenches (plier, wire cutter and screw driver), gas pliers, burner pliers, pipe wrenches, hand force cups, plumbers' force cups, blow torches, melting pots, steel ladles, and forged steel snips, conductor pipe and eaves trough.

NOTES AND QUERIES.

ADDRESS OF ILLINOIS REFRIGERATOR CO.

From D. Frame & Son, North Manchester, Ind.

What is the address of the Illinois Refrigerator Co.?

Ans.—Morrison, Ill.

HEADS IRON FOUNDRY CO.

From Wm. D. Dust Co., Detroit, Mich.

Where is the Heads Iron Foundry Co. located?

Ans.—Giblin & Co., Utica, N. Y., are the successors of the Heads Iron Foundry Co.

AMERICAN SHEAR CUTLERY CO.

From Garmen & Ferkenhock, New Hampton, Iowa.

What is the address of the American Shear Cutlery Co.?

Ans.—Hotchkissville, Conn.

SURVEYORS' TOOLS.

From Jonas Johnson & Co., Worthing, S. D.

Where can we buy surveyors' tools?

Ans.—Keuffel & Esser Co., 111 Madison street, Chicago; Eugene Dietzgen Co., 181 Monroe street, Chicago; Peter Heer & Co., 88 E. Ohio street, Chi-

cago; L. Manasse, 88 E. Madison street, Chicago; R. Seelig, 124 S. Clark street, Chicago.

AMERICAN PENCIL CO.

From A. F. Klieman, Chicago.

Where is The American Pencil Co. located?

Ans.—491-493 Broadway, New York City.

JOHN B. HOLMER.

From De Vol Hdw. Co., Council Bluffs, Iowa.

What is the address of John B. Holmer, manufacturer of the Superior hack saw blade, who formerly lived at 287 Clybourn avenue, Chicago?

Ans.—Can any of our readers answer this question?

PLASTER CASTS.

From Chas. Weisgerber, St. Peter, Minn.

What book would you recommend on the subject of plaster cast ornaments?

Ans.—Plaster and Plastering, by F. D. Hodgson; Modeling in Clay, by A. L. Vago. For sale by Daniel Stein, 69 Dearborn street, Chicago.

FERROTYPE IRON.

From Laurense Henry, Dennison, Ohio.

Where can I buy thin ferrotype iron?

Ans.—Almer Coe, 72 State street, Chicago; R. J. Golsen, 74 Wabash avenue, Chicago.

OIL CAN SCREWS.

From the Allison-Hill Co., Denver, Colo.

Who makes oil can screws?

Ans.—Wm. Vogel & Bro., Brooklyn, N. Y.; Hero Fruit Jar Co., Philadelphia, Pa.

INSURANCE ASSOCIATIONS.

From Creekside Hdw. & Furn. Co., Creekside, Pa.

Where can I find out about the state hardware insurance associations?

Ans.—C. H. Miller, Huntingdon, Pa.; A. R. Sale, Mason City, Ia.; C. A. Peck, Berlin, Wis.; Geo. M. Gray, Coshocton, O.; Frank K. Barr, Lincoln, Neb.; M. S. Matthews, Minneapolis, Minn.; Fred Neudorff, St. Joseph, Mo.

UTILITY CORN PLANTER.

From Brown-Hurley Hdw. Co., Des Moines, Iowa.

Who makes the Utility corn planter?

Ans.—Can any of our readers answer this question?

ITEMS.

A small amount of cooking can be done by removing the top plate.

McCoy & Skelly, a tinsmithing concern at Ogdensburg, N. Y., has been bought out by Mr. Skelly.

The stockholders of the Youngstown Sheet & Tube Co., Youngstown, O., at a meeting held on March 28, authorized their directors to expend $2,500,000 for additions to their plant.

D. H. Allison, of Allison & Hill Co., Denver, Colo., a well-known dealer in washing machines, O. K. cornice brakes, furnaces and hardware, died recently at his home in Denver, Colo.

Emil Stricker, Jno. J. Kane and Jacob Brummer are the incorporators of the Elizabeth Roofing Co., 68 Broad street, Elizabeth, N. J., capitalized at $10,000, for the manufacture of roofing.

Samuel W. Thompson, Arthur M. Holbrook and M. H. Nagle are the incorporators of the Holbrook & Thompson Roofing Co., 1 Montgomery street, Jersey City, N. J., capitalized at $25,000, for the manufacture of asphalt, tar and roofing.

H. Weiss & Co., 20 Cliff street, New York, are very extensive dealers in skylight, gearing and chain lifts. They also handle tinsmiths' and plumbers' tools, cornice makers' tools, coppersmiths' tools, and pipe threading machines. They announce that secondhand tools will be bought, sold and exchanged.

The McClure Co., with offices at Pittsburg and Philadelphia, are making extensive improvements in their tin mills at Wheeling, W. Va. The additions to be made will cost in the neighborhood of $10,000, and will increase the output of their annealing and pickling departments from 16,000 to 20,000 boxes per month.

The American Tin Plate Co. has filed deeds which convey to the American Sheet & Tin Plate Co., of New Jersey, all the owner company's holdings at Middletown, Ind. Since the formation of the American Sheet & Tin Plate Co., the plant at Middletown has fallen into a complete ruin. At one time it was said to have been one of the best paying plants in the country. Since that time it has not turned a wheel.

At the annual convention of the New Jersey State Master Plumbers' Association the following officers were elected: President, James H. White, Paterson; vice-president, George H. Andruss, Passaic; first vice-president, James Toomey, Atlantic City; second vice-president, Walter Champlain, Newark; third vice-president, Edson Garrabrant, Orange; secretary, John F. Mills, Orange; treasurer, Zelden Walker, Newark. At the afternoon session on March 21, the occasion was enlivened by a speech from Frederick Fass of Montclair, N. J., who strongly advocated the open shop. He declared that in Montclair it prevailed to the mutual benefit of both employer and employe.

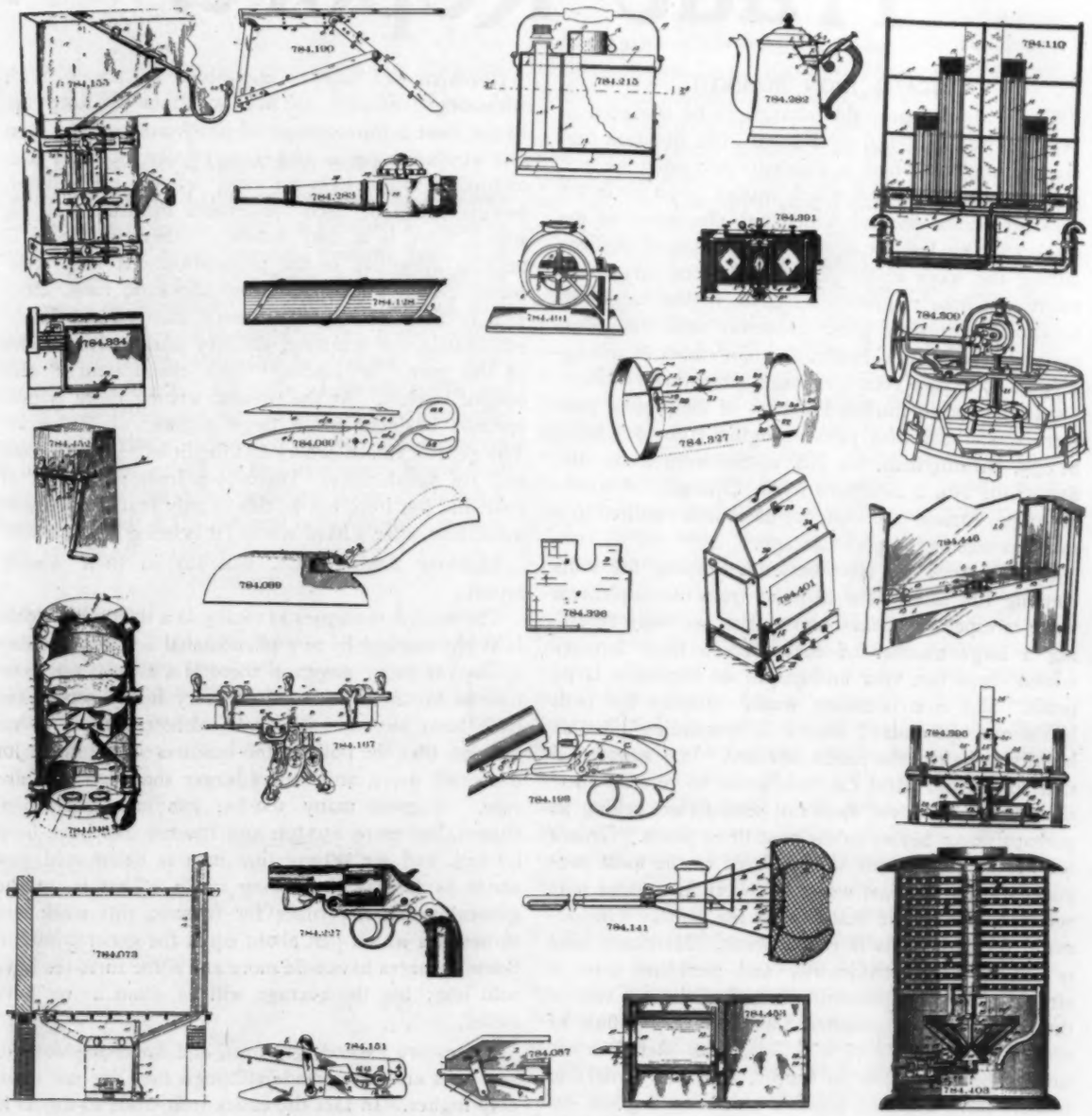
We are in receipt of the April number of "Graphite," a monthly publication issued in the interests of the Jos. Dixon Crucible Co., Jersey City, N. J., for the purpose of establishing a better understanding in regard to the different forms of graphite and their respective uses. This number contains many heretofore unpublished illustrations of notable buildings and bridges in different parts of the world, and likewise contains seasonable talks on good paint and good painting. This publication will be sent free to all members of the trade who so desire, and who will signify their wishes by sending their names to the publishers. When writing for same, kindly add: "Saw it in THE AMERICAN ARTISAN."

SOUTH AFRICAN TIN MINES.

The Bushveld Tin Mining Corporation are a new Johannesburg, South African concern, capitalized at $1,500,000 to work tin mines in Bushveld, Enkeldoorn, Zusterhoek and Rietfontein, in Pretoria.

The main lode which this concern will work is well defined and shows a pretty pure grade of casserite; in some trenches the lode is split up into stringers separated by fine grained country rock, and again in other places, sporadic outcrops are found.

NEW PATENTS.



784,039—Sad-iron. Margaret E. Fallon, Spokane, Wash.

784,048—Furnace. Denis D. Hughes, Titusville, Pa.

784,057—Window or door fastener. Charles D. Lovelace, Hereford, Tex.

784,069—Shears. John Polkowski, New York, N. Y.

784,073—Heating system. Frederick W. Robertshaw, Pittsburgh, Pa.

784,110—Indirect heating system. Eugene R. Knapp, Brookline, Mass.

784,128—Spiral pipe. James H. Taylor, Chicago, Ill.

784,141—Animal trap. Albert Brest, Newcastle, Pa.

784,151—Wrench. William E. Gilchrist, Rockford, Ill.

784,155—Combined adjustable window shade and curtain bracket. Charles A. Haas, Pittsburgh, Pa.

784,167—Elevated carrier. William Louden, Fairfield, Ia.

784,190—Combined ironing board and step-ladder. John E. Stoneking, Bertram, Ia.

784,193—Breakdown gun. George Toborg, Chicago, Ill.

784,215—Dinner pail. James E. Humphrey, Aberdeen, S. D.

784,227—Searchlight for revolvers or other firearms. Byron C. Riblet, Spokane, Wash.

784,282—Covered receptacle. John J. Schuler, Rome, N. Y.

784,283—Nozzle. Charles H. Smith, Richmond, Va.

784,309—Gearing. Conrad Dietz and John Dietz, Cincinnati, O.

784,326—Tubular lantern. James H. Hill, Rochester, N. Y.

784,327—Stovepipe support. James J. Hill, Ewing, Ill.

784,334—Heater. Hiram Landrus, Topeka, Kans.

784,391—Gas range. Carl Eickemeyer, Yonkers, N. Y.

784,396—Lawn mower. John H. Hall, Patrick, W. Va.

784,401—Ice cream freezer. Charles P. Hudson, Lancaster, S. C.

784,403—Water heater. William E. Kay, Lorain, O.

784,446—Sash fastener. William M. Taylor, Weston, and Walter Holle, St. Clara, W. Va.

784,452—Wire stretcher and fastener. Felix Verhoeven, Forestgrove, Ore.

784,453—Bird trap. Otto H. Voelkerding and Frederick H. Voelkerding, Augusta, Mo.

784,491—Washing machine. Daniel E. Howard and Arthur S. Hall, Saguache, Colo.

Trade Report.

CHICAGO IRON MARKET.

There is no appreciable change to be recorded in Western iron and steel conditions. The situation presents an outlook which is decidedly favorable for iron and steel producers and which implies no let up in the very strenuous demand which has characterized the market for the last six weeks. The buying of pig iron during the week under review was done largely by interests whose requirements came in the neighborhood of five hundred tons. However small the orders may have been individually, they amounted in the aggregate to a very round tonnage. Deliveries extending to the end of the third quarter of the present year were numerous, with prices ranging from $13.50 to $13.75, Birmingham, for No. 2, Southern irons, and $17.50 for No. 2 Northern irons, Chicago. A 2,000-ton inquiry made last week for basic iron resulted in a sale this week at $13.60, Chicago.

Specifications for steel bars are keeping the mills running full time. The demand from the implement trade is especially heavy as retailers are daily receiving a large number of early orders from farmers whose crops last year brought in an unusually large profit. Bar iron is rather weak. Inquiry for both black and galvanized sheets is continuing just as heavily as before the recent advance. It is announced that the Inland Steel Co., are about to re-start their sheet mill. Standard steel rail sections are selling as perhaps never before in the past three years. Orders for nearly 40,000 tons were offered to the local producer during the past week, but were in a great part rejected because of inability to fill same. The demand for light rails is rather weak. Merchant steel is selling very satisfactorily and merchant pipe is strong. The very pleasant weather of the last two or three weeks is responsible for the heavy influx of orders for all kinds of wire products. Retailers are said to be rather low in supply, and their orders to jobbers have depleted jobbers' stocks to a great extent. Mills are hard pressed for deliveries, but despite the very heavy demand it seems probable that they will come pretty near to keeping pace with the demand.

PIG IRON.

Rogers, Brown & Co. will say in their weekly market report:

There seems to be no let up in the demand for pig iron and steel. This is also true of all kinds of finished material. Specifications and orders being received in increasing volume as the better weather of spring makes itself felt and outdoor activity increases.

Structural mills which have been running on short time, are now operating to the limit of their capacity and finding it difficult to keep up with the demands made upon them. There is more evidence of willingness on the part of buyers and sellers to close for extended delivery, and the amount of business done for third and fourth quarters is on the increase.

Northern and Eastern quotations are strong, with advancing tendency, as sales continue to keep up. In the East a fair tonnage of Southern iron has been sold at market prices and some twenty thousand tons of foreign iron bought for early delivery. The latter, however, will be used for export manufactures, on which there is a duty rebate. Otherwise, there is nothing attractive in the proposition. A large consumer closed for some twenty thousand tons, about equally divided between Northern, Eastern and Southern brands, for scattered delivery during the balance of the year. A leading Ohio manufacturer also bought heavily. At the present writing there is prospective business for a large amount of Bessemer. The general run of orders and inquiries have increased and are satisfactory. There is a freer movement of coke and pig iron, but as this is only reaching normal conditions after a hard winter, it is being freely taken.

Matthew Addy & Co. will say in their weekly report:

The market continues as steady as a thirty-day clock. It is not marked by any phenomenal feature, but day by day in every direction there is a steady and continuous buying. Some of the very heavy consumers have been buying minor lots, although there is no denying that the bulk of the business is coming from the small users, and orders larger than 500 tons are rare. A great many 500-ton lots have been purchased, but more 250-ton and 100-ton lots have been booked, and we believe that iron is being sold just about as fast as it is being made. That is, in the general average, furnace for furnace, this week will show sales which just about equal the general output. Some furnaces have sold more and some furnaces have sold less; but the average will be about as we have stated.

Prices are exceedingly firm, and no concessions of any kind are being made although they are not quotably higher. In fact the entire iron trade to-day is in what might be called a perfectly healthy and sound condition. It is not having a chill and it is not having a fever. In the South there is a very general feeling of optimism. The ironmasters there feel that present prices will be the minimum figures of the year, and that higher prices are very likely. There is scarcely and accumulation of iron in the South at the present time, and any suddenly increased demand for spot iron would develop an immediate scarcity. In fact, as far as Southern iron is concerned, and this is true equally of Northern iron, there is to-day a very delicate adjustment between consumption and production. During all of this month consumers have been growing gradually busier. Every indication points to the fact that more iron is going to be melted during the next three or four months than has been melted this month.

The coke ovens are still having difficulty in getting an adequate supply of cars. This is particularly true of the Virginia field, where cars for shipment North

of the river are unobtainable, working a very decided hardship of course on ovens who have orders booked for shipment through the Middle West. The shortage of cars for coke business is becoming chronic. For three years practically there has been more or less continuous trouble in this regard, and it seems a reflection on the general business management of the country that a thing of this kind should last so long.

CHICAGO HARDWARE SCRAPS.

Jobbers complain that for the past ten days or two weeks, they have had to work a night shift in order to keep up with the heavy demands brought upon them by the warm weather. The demand for all kinds of wire goods is especially strong, and indicate that farmers have taken advantage of the large surplus which accrued from last fall's harvest and are rearranging their farms. All sorts of spring goods are moving very freely and it is evident that retailers expect heavy buying. It is expected that quotations on hatchets will be raised in the very near future and that the price on axes will go down. Hibbard, Spencer, Bartlett & Co., jobbers in hardware, Chicago, quote as follows:

SQUEEZERS.

Lemon—

Wood, porcelain lined, per dozen	$1.25
Boss, malleable iron, per dozen	.75
Little Giant, tinned, per dozen	3.80
Drum japanned, per dozen	3.60
Drum nickel plated, per dozen	4.50

BRACKETS.

Hay Rack—

Wenzelmann's No. 1, per dozen sets	$ 9.75
Wenzelmann's No. 2 per dozen sets	10.50

STRETCHERS.

Carpet—

Excelsior, per dozen	$5.25

Wire—

N. S. Elwoods	6.00
O. S. Elwoods	6.00

SWIVELS.

Malleable iron, per lb.	6¼c

CONDUCTOR PIPE.

Prices were raised during the week under review in accordance with THE AMERICAN ARTISAN predictions.

John McVoy & Co. quote the following official prices to dealers, effective at once:

Galvanized conductor pipe nested, Illinois, Indiana, and other Eastern territory, nested, 70-15; not nested, 70-10; copper conductor pipe, 40-10; cave trough and roofing gutters, 80 per cent off; galvanized plain ridge roll, 80-7½ off; galvanized formed valley, 70 per cent off. In Iowa, Wisconsin and other central territory, conductor pipe, nested, at 70-7½; not nested, 70-2½; copper conductor pipe, 40-5; galvanized eave trough and roofing gutters, 75-10-5; galvanized plain ridge roll, 80-2½; galvanized formed valley, 60-10-5. In Southern territory: Conductor pipe, nested, 65-10; not nested, 65 per cent; copper conductor pipe, 40 per cent off; eave trough and ridge roll, 75-5 per cent; galvanized formed valley, 60-7½. Southwestern territory: Conductor pipe, nested, 60-15; not nested, 60-5; copper conductor pipe, 30-10; eave trough and roofing gutters, 70-5; ridge roll, 75 per cent; galvanized formed valley, 60 per cent off.

End pieces and drops, 35 per cent off all points. Wire eave trough hangers, 30 per cent off. Steel eave trough hangers, 20 per cent off. Cut offs, at 70 per cent off. Conductor pipe hooks, 20 per cent off.

OLD MATERIALS.

A much stronger feeling pervades this market than was the case two weeks ago and recently offered lists of the C., B. & Q. R. R. and the C., M. & St. P. R. R. have developed some rather attractive prices. The largest consumers of old materials, however, are still holding back, and it is impossible to conjecture whether prices will maintain their present status in spite of the unquestionably quiet demand. The following list gives the quotations prevailing at present, the higher prices being those of which dealers selling to consumers and the lower those at which they are buying: Old iron rails, $20.00 to $20.50; old steel rails, 4 feet and over, $15.50 to $15.75; old steel rails, less than 4 feet, $15.00 to $15.25; heavy relaying rails, subject to inspection, $22.50 to $23.00; heavy relaying rails, for side tracks, $20.00 to $20.50; old car wheels, $16.00 to $16.50; heavy melting steel scrap, $14.75 to $15.00; frogs, switches and guards, $14.50 to $15.00; mixed steel, $12.50 to $13.00. The following quotations are per net ton: Iron fish plates, $17.50 to $18.00; iron car axles, $21.00 to $21.50; steel car axles, $16.50 to $17.00; No. 1 railroad wrought, $16.50 to $17.00; No. 2 railroad wrought, $15.50 to $16.00; shafting, $16.50 to $17.00; No. 1 dealers' forge, $12.50 to $13.00; wrought pipes and flues, $11.75 to $12.00; No. 1 cut busheling, $11.25 to $11.50; iron axle turnings, $11.50 to $12.00; soft steel axle turnings, $11.50 to $12.00; machine shop turnings, $11.00 to $11.50; cast borings, $8.50 to $8.75; mixed borings, etc., $8.50 to $8.75; No. 1 mill, $9.75 to $10.00; country sheet, $8.00 to $8.50; No. 1 boilers, cut to sheets and rings, $11.50 to $12.00; No. 1 cast scrap, $13.50 to $14.00; stove plate and light cast scrap, $11.00 to $11.50; railroad malleable, $13.50 to $13.75; agricultural malleable, $12.25 to $12.50.

PIG TIN.

In spite of the great weakness recently shown in the London market, leading dealers in New York and Chicago continue to support trading by holding offerings firmly at the former figures. Consumers are not in any degree anxious to buy at prevailing prices but jobbers feel that it is only a question of time before consumers will be forced to view the situation from the standpoint of the seller. Private estimates of the shipments from the Straits for March are between 4,000 and 4,500 tons. The local hardware jobber quotes Banca pigs per lb. 35c to 35½c; Straits, pigs, per lb., 35c; Straits, in bars, per lb., 37c.

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box
IC	14x14	$10 50
IC	14x20	7 15
IX	14x20	8 40
IXX	14x20	9 60
IXXX	14x20	11 85
IXXXX	14x20	13 10
IC	20x28	14 50
IX	20x28	16 50
IXX	20x28	18 95
IXXX	20x28	21 35
IXXXX	20x28	23 75

COKE PLATES.

Cokes, 180 lbs	IC	20x28	$9 00
Cokes, 200 lbs	IC	20x28	9 35
Cokes, 216 lbs	IC	20x28	9 75
Cokes, 216 lbs	IX	20x28	11 70

PIG IRON.

Lake Sup. Charcoal	$18 50@$19 00
North'n Coke Fdy., No. 1	18 00
North'n Coke Fdy., No. 2	17 50
North'n Coke Fdy., No.	17 00
Northern Scotch, No. 1.	18 50
Ohio Strong Softeners, No. 1	19 30@ 19 80
Ohio Strong Softeners, No. 2	18 80@ 19 30
Southern Silvery, 4 to 6 per cent Silicon	18 65@ 19 65
Southern Coke, No. 1	17 65@ 17 90
Southern Coke, No. 2	17 15@ 17 40
Southern Coke, No. 3	16 65@ 16 90
Southern Coke, No. 4	16 40@ 16 65
Southern Coke, No. 1, Soft	17 65@ 17 90
Southern Coke, No. 2, Soft	17 15@ 17 40
Southern Gray Forge	16 50@ 16 75
Southern Mottled and White	15 90@ 16 15
Malleable Bessemer	17 50
Standard Bessemer	18 50@ 19 00
Jackson County & Kentucky Silvery, 6 to 8 per cent Silicon	20 30@ 22 80
Jackson County & Kentucky Silvery, 10 per cent Silicon	23 30
Alabama Basic	17 15@ 17 40
Virginia Basic	17 15@ 17 40

BLACK SHEET STEEL.

No. 16	per 100 lbs. $2 70
No. 18-20	per 100 lbs. 2 75
No. 22-24	per 100 lbs. 2 80
No. 25-26	per 100 lbs. 2 85
No. 27	per 100 lbs. 2 90
No. 28	per 100 lbs. 3 00
No. 29	per 100 lbs. 3 20

POLISHED SHEET STEEL.

No. 24	per 100 lbs. $4 85
No. 26	per 100 lbs. 4 95
No. 27	per 100 lbs. 5 05
No. 28	per 100 lbs. 5 15

SMOOTH STEEL.

Wood's Smooth, No. 15-17	$2 85
" " No. 18	2 95
" " No. 20	2 80
" " No. 22-24	2 85
" " No. 25-26	2 90
" " No. 27	2 95
" " No. 28	3 05

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B" $9 20

GALVANIZED IRON.

Regular Sizes.

No. 16, per 100 lbs	$3 20
Nos. 18 & 20, per 100 lbs	3 35
Nos. 22 & 24, per 100 lbs	3 50
No. 26, per 100 lbs	3 70
No. 27, per 100 lbs	3 90
No. 28, per 100 lbs	4 10
No. 30, per 100 lbs	5 00
Nos. 22 & 24 x 36 in., per 100 lbs	3 70
No. 26 x 36 in., per 100 lbs	3 90
No. 27 x 36 in., per 100 lbs	4 10
No. 28 x 36 in., per 100 lbs	4 30

SOLDER.

XXX Guaranteed ½ & ½	per lb. 20½c
Commercial ½ & ½	per lb. 19c
No. 1 Plumbers	17½c

SHEET ZINC.

600 lb. Casks	base, per cwt. $7 90
300 lb. Casks	per cwt. 7 95
Sheets	per cwt. 7 70

COPPER.

Copper ..... base, 21c

TIN PIGS AND BARS.

Banca, pigs, per lb	35@35½c
Straits, pigs, per lb	35c
Straits in bars, per lb	37c

LEAD.

American Pig	$4 60@$4 62½
Bar	6½c
National (White) brands (in less than 100 lb. lots), per lb	7½c

Sheet.

Full coils	per 100 lbs. $7 00
Cut coils	per 100 lbs. 7 25

HARDWARE.

ADZES.

Carpenters'.	
Ajax	35&15%
Blood's	40&2½%
Hunt's	25%
White's	12½%
Coopers'.	
Barton's	20%
White's	15%
Ship.	
Ajax	33½%
Blood's	37½%
Hunt's	25%
White's	12½%

AMMUNITION.

Caps, Percussion—per 1,000.	
F. L. Waterproof, 1-10s	40c
G. D.	35c
Eley's	52c
Cartridges.	
Peters Rim Fire Ctgs	50&3%
Peters Cent Fire, Pistol and Rifle	25&3%
Peters Cent Fire, Military and Sporting Ctgs	15&8%
Peters Blank Ctgs. 22 cal.	$1 24
Peters Blank Ctgs. 32 cal., C. F.	4 60
Peters BB Caps, Round ball	1 50
Peters BB Caps, Conical ball	1 95
Winchester Cent. Fire, Military and Sporting Ctgs	15&8%
U. M. C. BB Caps, Con. ball	$1 85 net
U. M. C. Rim Fire Shot Ctgs.	50&15&3%
U. M. C. Cent. Fire Shot Ctgs.	25&15&3%
Primers.	
Berdan Primers	$1 00
Peters Primers	20%
Winchester Primers	20%
Shells.	
Peters Empty Paper Shells, 10 and 12 gauge. League	25&2%
Peters Empty Paper Shells, 16 gauge. League	20&2%
Ideal Empty	25&7%
Peters Target and High Gun Smokeless	40&5%
Peters Premier and Ideal Smokeless	40, 10, & 10%
Peters Loaded Shells, League	40&2%
Peters Referee Semi-Smokeless	40&2½%
Winchester Blue Rivals / Winchester Yellow Rivals	40&1%
Winchester Repeater	20&2%
Winchester Leader	40&5%
U. M. C. Loaded Shells, Black Powder / Winchester Loaded Shells, Black Powder	40&1% full cases
Gun Wads—per 1,000.	
Peters Gun Wads	20%
U. M. C. Gun Wads	18%

Powder.		Each
King's Smokeless, kegs		$11 30
" "	¼ kegs	5 80
" "	½ kegs	2 97
" "	1-lb. cans	51
" "	1-lb. " rifle	70
Dupont's "	50-lb. drum	22 45
" "	25-lb. kegs	11 35
" "	12½-lb. kegs	5 80
" "	6½-lb. kegs	2 97
" "	1-lb. cans	51

Shot.	
Drop shot, sizes smaller than B, 25-lb. bags, per bag	$1 65
Drop shot, B and larger sizes, 25-lb. bags, per bag	1 90
Buck Shot, 25-lb. bags, per bag	1 90
Chilled Shot, 25-lb. bags, "	1 90

ANCHORS.

Expansion Screw Anchors 10%

ANVILS.

Trenton, 70 to 80 lbs	9½c per lb
Trenton, 81 to 150 lbs	9c per lb

AUGERS.

Boring Machine	70&5%
Irwin's	40&10%
Carpenters' Nut	70&5%
Hollow.	
Ives's New Pattern	25%
Bonney's—list $30.00	75&5%
Stearn's, No. 1	per doz. $42 00
Stearn's, No. 2	" 33 50
Post Hole.	
Dalbey, 8-in	per doz. $ 5 75
Digwell, 8-inch	" 13 00
Howe's, 6 and 8-inch.	" 11 00
Iwan's Improved	40&5%
Vaughan's, 4 to 9-in., per doz.	6 50
Rafting.	
Snell's	60&5%
Ship.	
Ford's, with or without screw	40-5%
Snell's, " " "	40-5%

AWLS.

Brad.	
Handled	per doz. $0 28
Shouldered, assorted, 1 to 4,	per gro. 95
Patent asst'd, 1 to 4	" 90
Harness.	
Common	" 1 10
Patent	" 90
Peg.	
Shouldered	" 95
Patent	" 40
Scratch.	
No. 2, handled	" 4 40
No. 1, socket handled	per doz. 1 15
No. 30 Hurwood	" 2 0[illegible]
Sewing.	
Common	per gro. 9[illegible]
Patent	" 90

AXES.

Boy's Handled.	
Camp Fire, 3 lb	per doz. $6 00
" " 4-lb., freighters',	per doz. 7 85
Cast Steel, good grade, "	5 80
Pioneer "	7 00
Broad.	
Peerless	40&5%
Red Warrior	per doz. $27 00
Firemen's "	1 50
Handled.	
Gladstone, 3 to 4 lbs., per doz.	$11 25
Hunt's " " "	9 50
Lippincott's " " "	9 50
Pioneer " " "	10 25
Valley Forge" " "	9 50
Maricopa " " "	8 25
Single Bitted (without handles).	
Gladstone, per doz. 3 to 4 lbs.	$8 50
Hubbard's conc. " "	7 00
Hunt's " "	7 00
Lippincott's " "	7 00
Mann's " "	7 00
Pioneer " "	7 50
Valley Forge " "	7 00
Second Quality " "	7 00
Maricopa " "	6 25
Double Bitted (without handles).	
Lippincott's, 3 to 4 lbs. per doz.	$9 00
Mann's " "	9 00
Pioneer " "	9 50
Valley Forge " "	9 00

The above prices on axes of 3 to 4 lbs. are the base prices.

3½ to 4½ lbs. advance 25c.
4 to 5 lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

BALANCES, SPRING.

Frary's	50%
Pelouze	20%

BAGS, PAPER NAIL.

Pounds	3	5	10	16	20	25
Per 1,000	$1.60	1.85	2.60	3.00	3.90	4.75

BARS, CROW.

Pinch or Wedge Point ..... cwt. $2 95

BASKETS.

Clothes.	
Small Willow	per doz. $6 00
Medium "	" 6 75
Large "	" 7 75
Galvanized Iron. ½ bu. 1 bu. 1½ bu	
Per doz. $4 00 5 50	7 00

BEAMS, SCALE.

P. S. & W. Co. 40%

BEATERS.

Carpet.	
Rattan	per doz. $2 40
Raymond's Steel Wire	" 80
Woven Wire, No. 4	" 1 10
Egg.	Gro.
No. 60 Improved Dover	$6 00
No. 75 Improved Dover	6 50
No. 100 Improved Dover	7 00
No. 102 Improved Dover Tin'd	8 50
No. 150 Improved Dover, Hotel	15 00
No. 152 Improved Dover, Hotel Tin'd	17 00
No. 200 Imp'd Dover Tumbler	8 50
No. 202 Imp'd Dover Tumbler Tin'd	9 50
No. 300 Improved Dover Mammoth, per doz	25 00

BELLOWS.

Blacksmiths'	70&5%
Hand.	
8 inch	per doz. $6 85
10 inch	" 8 40
Molders'.	
12 inch	" 13 00

BELLS.

Call.	
2¾ in. nickeled bell	per doz. $1 35
2¾ in. " brass bell	" 3 60
3 in. " " " "	7 50
3 in. " silver alloy bell	per doz. 16 50
4½ in. nickeled brass bell and base	per doz. 14 50
Cow.	
Ordinary Goods	70&5%
High Grade	60&10%
Jersey	70&10%
Door.	
Bigelow Automatic	per doz. $9 50
Rotary.	
3 in. bronzed iron bell	" 5 25
3 in. nickeled " " "	7 50
3½ in. " " " "	9 00
Hand.	
Hand Bells, polished	60@60&10%
White Metal	50%
Nickel Plated	40%
Swiss	60&5%
Silver Chime	33½%
Miscellaneous.	
Church and School, steel alloy	70, 10&5%
Farm, lbs. 40 50 75	100
Each $1.10 1.30 1.85	2.65

BEVELS, TEE.

Stanley's, rosewood handle, new list	40&5%
Stanley's iron handle	40&5%

BINDING, OILCLOTH.

Zinc	75&10%
Brass	75%
Brass Plated	75&10%

BITS.

Auger.	
Extra Double Spur	70&10%
Ford's Car and Machine	40&10%
Ford's	40&5%
Ford's Ship	40&5%
Irwin	50&5%
New Jenning's	55%
Russell Jenning's	25&10%
Clark's Expansive	60%
Steer's " Small list, $22.00	30%
" " Large " $26.00	30%
Irwin Car	45%
Snell's Car	50&5%
" Ship	40&5%
Ford's " Auger pattern Car	40&5%
Center	40&10%
Countersink.	
Wheeler's	per doz. $1 30
American Snail head.	" 70
" Rose "	" 80
" Flat	" 70
Buck Bros.' Flat	" 2 60
German	" 70
Dowel.	
New Jennings	40&10%
Gimlet.	
Standard Double Cut	50&5@50&10%
German Pattern	per doz. $0 [illegible]
Gouge	" [illegible]
Spoon	" 80
Countersink	" 1 [illegible]

Reamer.
Buck Bros.' ½ Round.. " 2 75
" " Square . " 2 50
Standard ½ Round .... " 75
" Square ..... " 75
German Octagon..... " 75
Screw Driver.
Round Shank..... " 48
" " extra quality ..... " 1 40
Square Shank ..... " 1 10

BLACKING, STOVE. (See Polish)

BLADES, SAW.

Butchers'.
Standard ¾ & 1½ in.....60&5%
Clock Spring.....60&5%
Star 20%
Hack.
Disston's .....25&5%
Griffin's.....35&5%
Star 20%
Wood.
Jackson's .....per doz. $2 25
Disston's—No. 6, 16, 26 & 045.. 4 20
No. 11 ..... 6 30
W. M. & Co.'s No. 20..per doz. 5 50

BLOCKS.

Snatch.
Wooden .....55&10%
Steel .....40&10%
Tackle.
Wooden .....70&5%
Steel .....50, 10&5%

BOARDS.

Stove.....40%
Wash.
Globe .....per doz. $2 55
Banner..... " 2 90
Crystal Glass..... " 3 40
Brass King..... " 3 40
Nickel Plate ..... " 3 40
Enamel King..... " 3 40

BOBS, PLUMB.

Carpenters'.
8½ oz. iron.....per doz. $0 65
1½ lb. " ..... " 1 60
2½ lb. " ..... " 1 80
13 oz. lead ..... " 3 00
6½ oz. brass..... " 3 30
Masons'.
3 lb. lead..... " 4 00

BOLTS.

Carriage, Machine, Etc.
Carriage ⅝x6 and sizes smaller and shorter.....75&5%
Carriage, sizes larger and longer than ⅝x6 .....70&5%
Machine, ⅝x4 and sizes smaller and shorter.....75&5%
Machine, sizes larger and longer than ⅝x4.....70&5%
Elevator.....50-10&5%
Plow.....60&10%
Stove .....80&10%
Tire .....75&10%
Wagon Box Strap .....70&10%
Mortise Door.
Gem.....50-10&5%
Ives'.....50&10%
Barrel.
Cast 50%
Wrought .....50&5%
" Bronzed.....75&5%
Flush.
Wrought, B K .....40&5%
Spring.
Wrought .....75&10%
" Brass .....75&10%
Square.
Cast.....40%
Wrought .....60-10&10%
Tire.....72&½%

BORERS.

Angular.
Miller's Falls.....per doz. $13 75
Bung.
Common ring with handle.
Inches..... 1½ 1¾ 2
Per doz..... $6.00 6.90 8.10
Enterprise Mfg. Co., No. 1 List $1.50; No. 2, $2.00 each...25, 10 & 5%

BOXES.

Mail, No.... ..... 5 10 20
Per doz..... $3.65 10.50 13.00
Miter.
New Langdon.....15&5%
Olmsted's 15%
Stanley's.....30%
Seavey's ....per doz. $8 00

BRACES.

Common Ball, American....$1.15@1.25
Barber's .....50&10@60&10%
Fray's Genuine Spofford's.....60%
Fray's No. 70 to 120, 81 to 123, 207 to 414.....60%
C. E. Jennings & Co.....50&5%
Mayhew's Ratchet ... .60%
Mayhew's Quick Action Hay Pat. 50%
Millers Falls Drill Braces..25&10%
P.,S.&W.Co.,Peck's Pat.60&10@65%

BRACKETS.

Hay-Rack.
Wenzelmann's No. 1 per doz. $10 70
" No. 2 " 11 30
Shelf.
Cast Iron, Japanned.....50, 10, 10%
Stanley's Wrought Steel 70-10&2½%
Wire .....80, 10&5%

BROILERS.

Wire..... .....70&10%
Crown,Self-Basting, No. 80.doz. $2 90

BUCKETS.

Pump Rubber.
Wychoff.....per gr. $4 75
Cooper..... " 5 50
Champion ..... " 7 50
Victor ..... " 9 50
Star..... " 5 00
IXL ..... " 6 75
Well.
Galv'd Qts..... 10 12 14
Per doz..... $2.75 $3.00 $3.25
Wooden, top ear, plain, per doz 3 75
" " swivel " 4 85
" side-strap, plain " 3 85
" " swivel " 4 95

BUCKS, SAW.

Folding .....per doz. $2 10

BURS, RIVETING.

Copper Burs only.....35-10&5%
Tinners' Iron Burs only.....70%

BUTTS.

Cast Iron.....65&10%
Wrought Brass.....20%
Wrought Steel Bright—Nos. 800, 804, 808, 810, 814 and 834.. .75&10%
Nos. 838, 840 and 842.....75-10&10%
Nos. 822 and 823.....60-20&10%
Wrought Steel, Japanned.
Nos. 731 and 737.....70&10&10%

CALIPERS.

Double .....40&10%
Inside and Outside.....40&10%
Wing ....40&5%

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M.....$3 65
Toe.
Shoenberger.....per lb 5 c
Bessemer ..... " 5½c
American ..... " 7½c
Swedes..... " 8½c

CANS.

Cheese Factory Can Stock.
Gallons.... 15 20 30 40
Per set.... $2.85 $3.05 $3.25 $4.40
Milk.
Elgin Pattern.
Nos..... 808 810
Gals..... 8 10
Per doz..... $25.50 $34.00
New Elgin Pattern.
Eureka Pump, 5 gal.....$9 25
Wood Jacket.....50, 10&10%
Nos..... 105 108 110
Gal. each .. 5 8 10
Per doz.... $15.75 $18.00 $18.75
Iowa Pattern.
Nos..... 608 610
Gal 8 10
Per doz..... $20.50 $21.50
New York Pattern.
Nos..... 908 910
Gal. each..... 8 10
Per doz..... $25.15 $26.95
Oil and Gasoline.
1 Gal. glass, Daisy....per doz.$2 10
1 " cushioned " 3 15
Star, gals..... 1 2 3
Per doz..... $1.60 $2.60 $3.35
Per doz.
Sterling Tilting, 5 gallon.....$ 7 80
"High C" Pump, " 9 00
Eureka Pump " 12 00
Wooden Jacket..... .....60&10%

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

Hay.
Myers' Imperial.....each $3 50
" Clover Leaf..... " 3 50

CARTRIDGES.

See Ammunition.

CASTERS.

Acme—Ball Bearing.....35%
Bed.....60, 10&5%
Common Plate.
Brass Wheel.....60&10%
Iron and porcelain wheels, 60,10&5%
Philadelphia Plate .....70&5%
Martin's.....50&10%
Payson's.....70&10%
Tucker's, Wood & Iron Wheel.25&5%
" Rubber Wheel.....15%

CATCHERS, GRASS.

Lieder's No. 1.. .....per doz. $6 25
Eureka ..... " 4 25
Ideal No. 4..... " 6 50

CHAIN AND CHAINS.

Breast Chains.
Doubleslack.....doz. pairs $5 75
With Covert snaps. " 5 00
With slide..... " 3 25
Without slide..... " 2 85
Bright Ox Chains.
5/16 in. $5.65; ⅜ in. $5.40 per 200 lbs.
Cable Coil Chain.
Inch..... 5/16 ⅜ 7/16 ½
Per 100 lbs.. $9.30 $6.50 $5.40 $4.60
Inch..... 9/16 ⅝ ¾ ⅞
Per 100 lbs.. $4.40 $4.30 $4.15 $4.05
Inch..... ⅞ 1 1¼
Per 100 lbs.. $4.00 $4.00 $4.10
Cable Log Chain.
Advance 35c per 100 lb. on Cable Coil
Cow Tie Chains.
American 2 toggle.....50&5%
" toggle and snap...50&5%
" open & closed ring, 50&5%
Halter Chains.
American, new list.....33⅓%
German.....60-10&5%
Niagara, new list.....40&5
Triumph, " 30%
Picture Chains.
Light Brass, 3 ft.....per doz. 63c
Heavy Brass, 3 ft..... " 75c
Pump Chain.
Galvanized, per 100 lbs.....$4 75
Safety Chain.
Brass.....60&10%
Special Steel Loading Chain.
Inch ..... ⅜ 7/16 ½
Per 100 lbs... $16.00 $13.50 $12.50
Stretcher Chains.
5/16 in. $8.50; ⅜ in. $7.75 per 100 lbs.
Tie-Out Chains.
Brown's .....70&10%
Trace Chains.
Western Standard.
6½— 6-2.....per pair 30c
6½— 8-2..... " 34c
6½— 8-3..... " 33c
6½—10-2..... " 38c
7 — 8-2..... " 38c
7 —10-2..... " 42c
7 —10-1 ..... " 48c
7 —10-0..... " 60c
Add 2c per pair for Hooks.
Add 2c " for Twist Link.
Wagon Stay Chains.
Inch..... ⅜ 7/16 ½
Per 100 lbs... $6.50 $6.00 $5.50

CHALK, CARPENTERS'.

Blue.....per gross 58c
Red..... " 48c
White..... " 38c
Common White Sch'l Crayon..... " 5½c

CHARCOAL

In barrels.....per bu. 21c

CHECKS, DOOR.

Blunt 30%
Blum-Jap'd, $6.25; Brzd., doz....$7.00
Columbia.....50, 10&5%

CHIMNEY TOPS.

Iwan's Volcano.....50%

CHISELS.

Box.
Inches..... 10 12 14
Round, per doz. $2.10 $2.25 $2.75
Flat " 2.85 3.60 4.20
Cold.
Good quality.....per lb 10@19c
Socket, Framing and Firmer.
Barton's.....20%
P. S. & W. Co.....70%
For beveled back, add per doz. .60c
Tanged, Firmer.
P. S. & W. Co.'s.....35&5%
With handles, add per doz.....60c
Choppers, Enterprise Meat.
No. 12.....$2 75
No. 22..... 4 50

CHUCKS, DRILL.

Standard Tool Co.'s... .....40%
Goodell's, for Goodell's Screw Drivers.....per doz. $6 25
Yankee, for Yankee Screw Drivers..... 5 00

CHURNS.

Anti-Bent Wood, Gal.. 5 7 10
Each.....$3.90 $4.15 $4.40
Belle, Barrel.....70&5%
Common Dash, Gal.. 4 5 6
Per doz.....$7.75 $8.50 $10.50
Hero.....70%
Union, Gal..... 5 7 10
Each..... $3.65 $3.90 $4.75

CLAMPS.

Adjustable.
Martin's.....40%
Carpenters'
Steel Bar.....30%
Carriage Makers'
P. S. & W. Co.'s.....40, 10&5%

Hose.
Sherman's, brass, ¾ in., per doz. .33c
Double, brass, ¾ in., " 65c
Saw Filers.
Disston's list, $30.00.....30%
Stearn's, No. 0, $3.50; No. 1, $11.50; No. 3, $5.50 doz.
Wentworth's.....40%

CLAWS, TACK.

Cast, wood hdle.....per doz. 45@60c
Forged steel, wood hdle " $0.80
Solid Steel..... " 1.00
Giant..... " .60

CLEANERS.

Drain.
Iwan's Adjustable.....50%
Iwan's Stationary.....40%
Pot.
Wire..... per doz. $0.45
Side-walk.
Steel..... per doz. $3.15
XLCR.....65&5%

CLEAVERS.

Family.
Ajax, In..... 6 7 8
Per doz..... $5.50 $5.75 $6.25

CLEVISES.

Malleable ....per lb 3½c

CLIPPERS.

Bolt.....$1.90@$4.75

CLIPS.

Axle.....65&5%
Damper.
Standard.....per doz. 70c
Troy..... " 38c
Hame..... " 20c

CLOTH.

Emery.
Ajax..... 50&10%
B. & A..... 50%
Hardware Wire—full rolls (100 ft.)
2 to 8 mesh black, per 100 sq. ft..$1 85
9 to 12 " " " 2 15
2 to 8 " galv. " " 2 70
7 and 8 " " " " 3 25
An extra charge is made for 50 ft. lengths, and a still farther advance for smaller pieces.
Screen Wire.
12 mesh, painted, per 100 sq. ft..$1 25
14 " " " " 1 80

COCKS AND FAUCETS.

Compression Plain Bibbs...60-10-2½%
Lever Bibb Cocks.....70%
Compression Hose Bibbs.....60-10%
Telegraph Faucets (new list)...50-5%
Racking Cocks (new list).....70-5%
Compression Lock C'ks(n'w list)70-5%
No. 65 Brass Liquor Cocks, doz..$9.15
Andrew's Brass Faucets 70%
Angle Plug Faucets, per doz... $0.85
Milk Can Faucets, per doz...$2.60-4.20
Petroleum Faucets (new list)....70%

COFFEE MILLS.

Enter. Mfg. Co., list Jan. 17, '93..25%
Parker's.. .....50%
Arcade.....60&10%

COLLARS, STOVE PIPE.

Inches..... 5 6 7
Plain Tin....per gro. $2.50 $2.80 $3.75
Japanned Tin " 3.90 4.20 5.40
Lacquered Brass " 3.30 3.60 4.80

COMBS, CURRY.

Nos 000 20 321 330 417 416
Per doz.$0.33 .80 1.00 .95 .80 1.00
Nos 531 533 530 535 545 390
Per doz.$0.96 1.20 1.10 1.65 1.40 1.20

COMPASSES.

Carpenters'.....70%
Pencil—Faber's.....per doz. $1.00

CONDUCTOR PIPE, GALVA.

L. C. L. to dealers

Territory	Nested	Not Nested
A, Eastern...	75&5%	75%
B, Eastern...	75&10%	75&5%
Central.....	75&5%	70&10&5%
Southern.....	70&7½%	70&2½%
S. Western...	70&5%	70%

Terms, 60 days; 2% cash 10 days.
Factory shipmh'ts generally deliverd.
See also Eave Troughs.

COPPER—See Metals.

COPPERS.

Soldering.
1 lb.....per lb 31c
1½ lb.....28c 2 lb.... " 27c
3 lb and larger..... " 25c

CORD.

Picture.
White Wire—last October 1901 .....80&10%
Sash.
Baltic Braided Flax.....per lb 20c
Silver Lake, white 7-32 in. " 29c
" " 8-32 in. " 29c

CORKSCREWS.

Humason & Beckley.....33⅓%
Walker's.....33⅓%
Williamson's Regular.....50%
Williamson's Forged Worm.....50%

COTTERS, SPRING.

All sizes—new list.....90&10¢

COUPLINGS, HOSE.

Brass.....per doz. $1.00
Brass Plated..... " .85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine...per doz. $22.25

CRAYONS—See Chalk.

CROW BARS.

Pinch or Wedge Point, per 100 lbs. $3.40

CUTTERS.

Meat.
Enterprise Nos. 5, 10, 12, 22, 32 and 42.....25¢
No. 100, list, $18.00.....40&10¢
Nos. 2 and 4.....35¢
Ideal.....per doz. $9.75
Universal... Nos. 1 2 3
Per doz.....$10.75 $13.00 $18.00
Pipe.
Sandwoods...No. 1 2 3
Each..... $0.85 $1.50 $4.00
Slaw and Crout.
3-knife Crout.....per doz. $9 75
1-knife Slaw..... " 1 65
2-knife " ..... " 2 25
Washer..... " 7 75

DAMPERS, STOVE PIPE.

Standard.....50&10¢
American.....40&10¢

DIES, STOCKS AND

Discount.....40& 5¢

DIGGERS.

Post Hole.
Acme.....per doz. $8 75
Atlas..... " 8 25
Eagle..... " 5 75
Eureka..... " 6 25
Hercules..... " 9 75
Iwan's Split Handle.. " 8 00
Iwan's Perfection..... " 8 00
Ryan's..... " 17 00

DIGGERS, POST HOLE.

Atlas.....per doz. $8 50
Eagle..... " 6 25
Eureka..... " 6 50
Hercules..... " 10 25
Ryan's..... " 17 00
See also Augers—Post Hole.

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel painted, per doz. $6 85
1⅛ in. " " " 7 50
1⅛ in. 3-panel natural pine, fancy.....per doz. 11 50

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock.....60¢&10&5¢
Blacksmith's Twist.....6¢
Breast.
Common.....each, $2 25
Millers Falls..... " 3 10
Hand
Goodell's Automatic.
Nos.....01 03 3 20
Per doz..$7.75 $12.50 $14.25 $11 00
Goodell's Single Gear per doz. 16 00
Millers' Falls " " " 12 75
" " Double " " 15 25
Reciprocating.
Goodell's.....per doz. $ 1 00
Bit Stock.
Standard List...60&5¢@60¢@10¢

DRIVERS, SCREW.

Hurwood.....40&10¢
Standard.....65&10¢
Ajax.....70&5¢
Champion.....50¢
" Pattern.....60, 10&5¢
Clark's Interchangeable.....33⅓¢
Edison.....60¢
Reed's Lightning.....50¢
Goodell's Spiral.....50, 10, 5&2½¢
Yankee Ratchet.....50¢
" " Spiral.....50&10&5¢

EAVE TROUGH. GALVANIZED.

Territory. L. C. L.
A, Eastern.....80&7½¢
B, Eastern.....80&12½¢
Central.....80&7½¢
Southern.....70&20&10¢
S, Western.....75&12½¢
Terms, 2¢ for cash. Factory shipments generally delivered.
See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches..... 5 6 7
Smooth, per doz. $0.95 $0.95 $1.40
Plan'd " 2.10 2.35 3.00
Corrugated Conductor.
5-inch.....each 60c; per doz, $7.20
6 " ..... " 70c; " 8.40
75¢ discount to dealers on 2-inch, 3-inch and 4-inch plain, round and round corrugated elbows.

Corrugated Stove.
Inches..... 5 6 7
Smooth, per doz. $0.95 $0.95 $1.40
Pol'd " 1.70 1.75 2.60
Plan'd " 2.60 2.85 3.50
Four-Piece Stove.
Inches..... 5 6 7
Smooth, per doz. $0.57 $0.60 $0.93
Pol'd " 1.00 1.05 1.50
Plan'd " 1.50 1.70 2.60

EMORY CLOTH—See Cloth.

EMORY, TURKISH.

Size.....5-lb. pkgs. ¼ kegs, kegs
No. 60 to 150, per lb. 6¼c 4¼c 4¼c
Flour..... " 5¼c 3¼c 3¼c

ENAMEL, IRON.

English, ½-pt. cans.....per doz. $1 50
Nubian " " ..... " 1 80
Peerlen..... 1 50

EXTRACTORS, PIG.

See Forcips, Pig.

EYES.

Bright Wire Screw—See Goods, B. W.
Drifting Pick.....60, 10&5¢
Hooks and—
Brass.....60&5¢
Iron.....65&10¢

FASTENERS, STORM SASH

Moore's.....per doz. $0 80
Schroeder's..... " 1 50
Sensible..... " 1 10

FAUCETS—See Cocks.

FILES AND RASPS.

Black Diamond.....70&10¢
Disston's.....75&10¢

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior.....per doz. $4 75
Whisson's Imp..... " 5 25

FORKS.

These goods are sold net this year.
Barley.
Steel.....70&2½¢
Wood, 4 tines, per doz.....$5.25
Coal, Coke, Cottonseed.....40¢
Hay.
Diamond, 2 tine.....50&10¢
" 3 " .....60¢
" 4 " .....40¢
Golden Eagle, 3 tine.....65¢
" " 4 " .....70¢
Digging.....70&10¢
Scoop.....40¢
Header.
Diamond, 3 tine.....66⅔&5¢
" 4 " .....65&10¢
Manure.
Diamond, 4 tine..... 60&10¢
Golden Eagle.....70¢
Ore.....40¢
Spading.
Diamond.....70&10¢
Golden Eagle.....70, 10&5¢

FRAMES.

Hack Saw.
Crown.....per doz. $6 25
Miller's Falls..... " 10 20
Star..... " 2 85

FREEZERS, ICE CREAM.

Arctic.
Qts..... 1 2 3 4 6
Each.....$1.10 1.30 1.50 1.80 2.30
Qts..... 8 10 12 15
Each.....$2.95 3.80 4.50 5.20
White Mountain.
20 qt., New Platform...each $19 10
25 qt., " " " 22 60
25 qt., Sampson Power. " 43 50
40 qt., " " " 58 25

GAUGES.

Butt and Rabbet.
Stanley R. & L. Co.'s...20&10&2½¢
Cream Pail.
Fairmont.....per doz. $3 75
Marking, Mortise, etc......
.....50&10¢@50&10&5¢
Saw.
Atkin's, single, 55c; dbl. 80c per doz
Wire.
Disston's.....25¢
P. S. & W. Co.'s.....20¢

GIMLETS.

Discount.....35@40¢

GLASS, WINDOW.

First three brackets.....90&15¢
Above " " .....90&10¢

GLASSES, LEVEL.

Stanley R. & L. Co.....50&5¢

GLUE.

Bulk.
B Amber.....per lb. 9½c
A White..... " 12½c
H. S. Amber..... " 17c

Liquid.
Eagle.....40¢
Le Page's—
List "A".....37½¢
List "B".....33⅓¢
List "C".....25¢

GOODS.

Bright Wire.....90&20¢

GREASE, AXLE.

Wood Boxes.
Diamond.....per gro. $5 00
Frazer's..... 9 25
Hub Lightning..... 5 25
Paragon..... 6 75
Wood Pails.
Frazer's, 15 lb. 78c; 25 lb. $1.30 each
Hub Lightning, 15 lb. 52c; 25 lb. 68c each.
Tin Cans.
Chamellene Graphite.
1 lb. per gross.....$9 50
3 lb. per gross.....25 00
5 lb. per gross.....37 00

GRIDDLES.

Soapstone.....40&10¢

GRINDSTONES.

Family.
Inches..... 7 8 9
Per doz.....$8.25 9.00 10.50
Loose.
Per ton.....$20 00@$21 00
Mounted.
Ball Bearing..... 1 2 3
Each.....$3.15 3.00 2.85
Common Bearing.. 1 2 3
Each.....$3.00 2.80 2.65

GUN WADS.
(See Ammunition.)

HAFTS, AWL.

Brad.
Common.....per doz. $0 18
Peg.
Common..... " 21
Patent, plain top .... " 46
" leather top... " 52
Sewing.
Common..... " 21
Patent..... " 58

HALTERS.

Jute Rope.....per doz. $0 80
Sisal Rope..... " 1 95
Web..... " 3 10
Leather, rope tie..... " 6 25
" leather tie.... " 8 25

HAMMERS, HANDLED.

Blacksmiths' Hand.
Maydole's.....40&10¢
Engineers'.
Maydole's.....40&10¢
Farriers'.
Maydole's.....35&5¢
Machinists'.
Maydole's.....40&10¢
Nail.
Ajax.....per doz. $5 75
Calumet..... " 3 15
Cast.....per doz. $1 10@$1 50
Maydole's.....30&7½¢
Vulcan.....35&5¢
Riveting.
Maydole's.....35&5¢
Shoe.
Cast.....per doz. 75c
Tack.
All Iron.....per doz. $0 35
Pol'd Iron, Hickory hdl. " 52
Mall. Iron, Inlaid..... " 1 50
Magnetic..... 1 2 3
Per doz.....70c 80c 95c
Magazine.....per doz. $4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs.....70&10¢
5 lbs. and over.....75&5¢
Masons'.
Single & Double Face.....70&10¢

HANDLES.

Auger.
Common Assorted...per doz. $0 36
Peck's Adjustable... " 2 10
Roger's " ... " 4 15
Ives' " ....per set 1 25
Axe.....50&10¢
Chisel.
Hickory, Tanged Firmer, Assorted, 24c; Large, 26c per doz.
Hickory, Socket Firmer, Assorted, 18c; Large, 21c per doz.
Applewood, Tanged Firmer, Assorted, 27c; large, 36c per doz.
Applewood Socket, Firmer, Assorted.....per doz. 24c
Coal Pick.....50&10¢
Drifting Pick.....50&10¢
File, assorted 13c, large 16c per doz.
Hammer.
Adze Eye.....per doz. 48c
Blacksmiths'.....per doz. 55c@80c
Machinists'..... " 45c@70c

Hatchet.....per doz. 45c
Hay and Manure Fork.....40&10¢
Hoe and Rake.....40&5¢
Saw.
Plain.....per doz. 72c
Varnished..... " 68c
Screw Driver.
Assorted..... " 42c
Large..... " 48c
Shovel and Spade.....40¢

HANGERS.

Barn Door.
King.....per doz. prs. $6 08
Monarch.....60&10¢
"Never Jump" Hinge.....50&10¢
Peerless, Loose Axle.....60&10¢
Perfection, Roller Bearing..70&5¢
Phoenix, Roller Bearing.....70&5¢
Prouty, No. 315..per doz. prs. $6 35
Rival..... " " 3 65
Superb..... " " 5 50
Safety Flexible. " " 6 35
Wagner's Adjustable.....70&10¢
Warehouse.....60¢
Conductor Pipe.
Iwan's Perfection.....50¢
Eave Trough.
Baker's.....per gro. $2 35
Imperial.....20¢
Wire.....35¢
Parlor Door.
Acme.....per set $3 75
Ives' Improved..... " 2 50
Lane's Standard..... " 3 50
" New Model..... " 3 10
Le Roy Noiseless..... " 4 00
Richards'.....40-10&5¢
Wilcox Standard.....per set $3 15

HASPS.

Hinge, Wrought.....50&5¢
With Staples—See Staples.

HATCHETS.

Ajax.....35¢
Blood's.....40¢
Cast Claw.....per doz. $1 20@1 45
Cast Shingling.... " $0 95@1 20
Duffy's Barrel.....per doz. $17 50
Germantown.....40¢
Hammond's.....40¢
Roger's Ideal.....per doz. $5 75
Underhill's Star Lath.....40&10¢

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wenzleman's No. 1....per doz. $12 60
" No. 2.... " 13 20

HINGES.

Blind.
Clark's Gravity...per doz. sets 80c
Parker's.....65¢
Shepherd's Noiseless, for Wood casing.....per doz. 1 50
Gate.
Clark's..... 1 2 3
Hgs & Ltch....doz. $2.35 2.60 3.60
Hinges only.... " 1.70 1.90
Latches only... " .70 .75
Knuckle.....per doz. prs. $6 00
Leed's..... " sets 6 75
Superior..... " prs. 9 25
Spring.
American.....25¢
Bommer Bros. Ball B'g Floor..35¢
Bommer Bros. Spring Hinges..40¢
Chicago.....25&5¢
Clover Leaf.....per gro. $9 00
Columbia Dbl. Acting....40&10&5¢
Gem.....25¢
Ideal Detachable....per gro. $12.00
Matchless.....30¢
New Idea.....per gro. $9 60
Oxford.....20¢
Wrought Iron.
New Lists.....
Light Strap Hinges.....70&5¢
Heavy Strap Hinges.....75&10¢
Light T Hinges.....65&5¢
Heavy T Hinges.....70-10&5¢
Extra Heavy T Hinges....70-10&5¢
Cor. Heavy Strap 80-20-10-10-10-10&5¢
Cor. Ex. Heavy T 80-20-10-10-10&5¢
Screw Hook and Strap.
6 to 12 in.....per 100 lbs. $3 50
14 to 20 in..... " " 3 25
22 to 36 in..... " " 3 00
Screw Hook and Eye.
⅝ in.....per 100 lbs. $6 25
⅝ in..... " " 7 25
½ in..... " " 9 00

HOES.

Garden.....70&15¢
Grub.
Ajax.....60 & 10¢
Extra.....70¢
Hazel.....per doz. $5 00
Ladies' and Boys'.....70&15¢
Mortar.....75&10¢
Planter's Eye.....62½¢
Weed.....75&5¢

HOOKS.

And Eyes.
Brass ..... 50&10&5¢
Iron ..... 65&10¢
Awning ..... per gro. $1 80
Belt.
Brown's ..... 70&5¢
Jones' ..... 65&5¢
Bench.
See Stops, Bench.
Box.
Inch..... 6 8 10 12
Per doz..... $1.25 1.60 1.70 2.25
Humason & Beckley's, per doz. 2 40
(See Goods, Bright Wire.)
Bush.
Common Axe Handle
..... per doz. $7 00@$8 50
Hamilton Pattern..... per doz. 7 25
Chain.
Inch... ½&5/16 ⅜ 7/16 ½
Per 100 $7.50-7.75 9.50 11.25 12 00
Clothes Line.
Japanned..... per doz. 21c@22c
Galvanized..... " 25c
Coat and Hat.
Cast Iron ..... per gro. 72c@$1 50
Gem Wire..... 75&10¢
Conductor.
Malleable..... 50&10¢@50&10&5¢
Wrought ..... 40&10¢@50¢
Corn.
Common, unpolished, per doz. $1 40
" polished.... " 1 80
"Cut Easy"..... " 2 75
Clyde's..... " 2 00
Gate.
See Goods, Bright Wire.
Grass.
Common. Nos..... 2 3 1
Per doz..... $1.75 1.80 1.90
German..... per doz. 1 90
Little Giant..... " 3 10
Wood's..... " 1 30
Hammock.
With Plate..... per doz. 31c
With Screw..... " 31c
Lambrequin, or Drapery, per gro. 21c
Picture ..... 50¢@50&10¢
Potato and Manure ..... 65&15¢
Screw.
Brass..... 80&20¢
(See Goods, Bright Wire.)
Seat Spring ..... per ℔. 5½c

HOOPS, TUB.

Ever Ready ..... per case $1 65

HOSE, GARDEN.

3 ply ¾ in. 35 ℔. pressure per ft.... 5½c
3 " ¾ " 50 " " " 7½c
3 " ⅞ " 70 " " " 7½c
3 " ¾ " 70 " " " 9c
4 " ⅞ " 80 " " " 9c
4 " ¾ " 80 " " " ... 10½c
6 " ¾ " 125 " " " ... 11½c
8 " ¾ " 150 " " " 13c
Cotton ¾ in. 75 ℔. pressure per ft. 7c
" ¾ " 150 " " " 9c

HUSKER.

Boss.
Nos..... E A B
Per doz..... $1.85 2.00 1.95
Nos..... P
Per gro $5.90 5.20
Nos..... 2000 3000
Per gro..... $3.10 6.75
Nos..... 4000 O OX
Per doz..... $1.15 2.20 1.65
Brinkerhoff's.
Per gro..... $14 50
Harrington.
Per gro..... 4 20
Ideal.
Nos..... 102 101 100
Per doz..... $1.35 2.50 2.75
Johnson's.
Per gro..... $7 75

IRON.

See Metals—First column.

IRONS.

Curling.
Common..... per doz. 33c@48c
Princess ..... per doz. $0 60
Yale..... " 84
Oxford ..... " 1 10
Ruby ..... " 1 50
Tourist, Folding..... " 90
Pinking ..... " 60
Plane.
Wood Bench..... 20&5¢
Stanley R. & L. Co. (new list) 25&5¢
Sad.
Charcoal ..... per doz. $10 75
Common, Polished, per 100 ℔. 3 50
" Nickel plated, " 4 75
Chinese Polishing..... per doz. 7 60
Laundry. No. 1 ..... " 5 75
" No. 2 ..... " 6 25
Mrs. Pott's,
No. 50 J, Enterprise... per set 79c
No. 55 J, " ... " 76c
No. 50 T, " ... " 82c
No. 55 T, " ... " 79c
No. 50, Howells..... " 72c
No. 55, " ..... " 69c
Tailors' Sad..... per ℔. 4½c
" Geese..... " 4½c
Tuyere.
Single Duck Nest..... per doz. $5 25
Double " " ..... " 6 25
Sutton ..... each 2 60

JACKS.

Locomotive ..... 75&5¢
Wagon.
Meekers'..... per doz. $1 25
Miller's No. 2..... " 7 00
Winner ..... " 7 00

KETTLES.

Brass..... 20¢
Caldorn ..... 50¢
Copper..... per ℔. 27½c
Maslin ..... 66⅔¢
Sugar ..... 50&5¢

KNIVES.

Beet Topping.
Clyde, 9-in. Scimiter Blade, dz. $3 85
" 10¾-in. Straight " " 3 15
California..... 3 40
Cooper's Hoop ..... 15¢
Corn.
Ajax..... per doz. $2 10
Drawing.
Standard ..... 70¢
Adjustable..... 20¢
Barton's Carpenters'..... 10¢
" Folding Handle.... 25&5¢
Hay.
American, Sickle Edge.. doz $10 25
Canton, Sickle Edge..... " 8 25
Heath's ..... " 8 25
Iwan's Sickle Edge..... " 10 00
Lightn'g, Holt's Genuine " 6 50
Lightning Pattern..... " 5 75
Wadsworth's Sp'r Point " 8 75
Hedge.
Ajax, Heavy..... per doz. $5 75
" Extra Heavy.... " 7 75
Mincing.
Common, Single ..... " 48
" Double ..... " 65
Streeter, 4 Blade..... " 1 30
" 6 Blade..... " 1 90
Putty.
Common..... " 84
Goodell's..... per doz. $1 30@1 80
Russell's..... " 1 75@2 25

KNOBS.

Door.
Mineral ..... per doz. $0 70
Porcelain ..... " 80
Jet..... " 80

LADDERS.

Common Long.
Per ft ..... 9c@14c
Extension.
Per ft 12c
Step.
Common, per ft..... 6½c
" with Shelf, add 10c.
I X L, per ft 17c
Miller's Household, per ft. 13c@15c

LANTERNS.

Bull's Eye Police.
3-in. Flash Light..... per doz. $6 00
2¾-in. Regular..... " 4 00
3-in. Regular..... " 5 00
Tubular.
Berger..... 40&10&5¢

LEADERS, CATTLE.

Nos 1 2 3
Per doz..... $0 55 $0 70 $2 75

LEATHER, LACE.

Cut ..... 50&10¢
Sizes.
Ex. Quality..... per sq. ft. 20c

LEATHERS, PUMP.

Valve and Plunger ..... 50¢

LIFTERS.

Stove Cover.
Japanned ..... per gro. $2 75
Coppered..... " 3 60
Devore's..... " 5 50
Zero..... " 3 90
Transom.
Payson's..... 70&10¢

LINES.

Chalk.
Twisted in 20-ft. hanks.
Nos..... 15 14 13 12 11
Per doz..... 10c 12c 17c 22c 29c
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz..... 24c 30c 36c 44c
Braided in 20-ft. hanks.
Nos..... 0 1 2
Per doz 23c 26c 33c
Mas[illegible] in 100-ft. hanks..doz. $1 00
Clothes.
60-ft. Jute..... per doz. $0 95
72-ft. " ..... " 1 10
60-ft. Sisal ..... " 1 60
72-ft. " ..... " 2 10
60-ft. Cotton ..... " 1 25
50 ft. Braided Cotton. " 1 00

LINING, STOVE.

In Bricks..... per crate 42c

MACHINES.

	Without Augers	With Augers
Boring.		
Ajax..... per doz.	$5 25	$6 75
Angular.... "	3 25	5 00
Boss ..... "	4 50	5 00
Upright.... "	2 90	4 00
Leather Riveting.		
Chicago, Pomeroy.... per doz.	$9 75	
Excelsior ..... "	2 50	
Handy ..... "	2 10	
Little Giant..... "	3 10	
Pony, Pomeroy..... "	8 00	
Washing.		
Boss	1 2 5	
Per doz.....	$55.20 61.20 67.20	
Globe, No. 1 ..... per doz.	53 00	
O K Rotary..... "	55 50	
Round Wayne..... "	26 50	
U. S. Steel..... "	60 00	

MAIL BOXES.

See Boxes.

MALLETS.

Carpenters'.
Fibre Head, Small ... per doz. $5 00
" " Medium. " 5 75
" " Large... " 6 75
Round Hickory..... " 1 75
" Lignumvitæ .. " 2 75
Square Hickory..... " 1 75
" Lignumvitæ.. " 3 25
Tinners'.
Applewood ..... " 60
Hickory..... " 85
Hickory Sheet Iron.. " 1 30

MATS.

Door.
National Rigid..... 50, 10&5¢
Queen Flexible..... 50¢
Stove.
Standard Quality... per gross $2 75
Best " (Pure) " 4 75
Wire Covered Asbestos, Ex. Heavy ..... per doz. 1 00

MATTOCKS.

Ajax..... 60&10¢
Extra ..... 70¢

MAULS.

Iron. lbs. 10 13 16 18 21
Per doz. $3.15 3.85 4.45 4.75 5.25
Wood face, lbs. 10 11 12
Per doz $4.75 5.00 5.25
Wood Choppers'.
Lake Superior & Oregon Pat. 70&10¢

MEASURES.

	½ pk.	1 pk.	½ bu.
Galvanized. per dz.			$3 65
Japanned... "	$1.40	2.10	2.60

METAL.

Babbitt.
Alm ..... per lb. 8½c
Best..... " 23 c
Common, No. 4..... " 6½c
Copper Mixed ..... " 18½c
Tony ..... " 10½c
See Metals—In first column.

MICA.

First Quality..... 35¢
Second Quality..... 45¢

MILLS, COFFEE.

Enterprise ..... 25&5¢
National..... 50¢
Parker..... 50&10¢@60¢

MITRE BOXES.

See boxes.

MOPS.

Erie..... per doz. $3 15
Handled Cotton.
Pounds..... ¾ 1 1¼ 2
Per dozen... $2.00 2.35 2.65 3.25

MOWERS, LAWN.

Ball-Bearing.
Inches..... 15 17 19 21
Each $7.50 8.50 9.50 10.50
Cheap Grades.
Inches..... 12 14 16 18
Each $2.10 2.10 2.10 2.20
Clipper ..... 50, 10&10¢
Girard.
Inches..... 14 16
Each..... $3.25 3.50
Philadelphia.
All Styles Except A & E 60, 10&10¢
Style A..... 50&10¢
Style E, High Wheel.. 60, 10, 10&10¢
Drevels..... 50¢
All Day..... Net Price

NAILS.

Cut Steel..... rates, $2 05
Horse Shoe.
Ausable ..... 50¢
Capewell ..... 10¢
Perfect ..... 40&5¢
Putnam ..... 10-5¢
Star ..... 35¢
Picture.
Brass Heads ..... 40&10¢
Judd's..... 40&10¢
Brads..... 80, 10&10¢
Furniture ..... 40¢
Wire.
Small Lots..... $2 05
Carload " 2 00
Cement Coated..... 1 80

NAIL PULLERS.

See Pullers.

NAIL SETS.

See Sets.

NETTING, POULTRY.

Galvanized Before Weaving.. 80&20¢
" After Weaving... 80&15¢
Cut Pieces..... 65&5¢

NIPPERS.

End Cutting.
P. S. & W. Co..... 60&10¢
Stubb's Pattern..... 60&10¢
Hoof.
Heller's ..... 40&5¢
P. S. & W. Co..... 40&10¢
V. & B..... 40-5¢

NOZZLES.

Hose.
Genuine Boston..... per doz. $3 05
Genuine Gem..... " 2 95
Magic..... " 3 15

NUTS, HOT PRESSED.

Square Blank.
In. ¼ ⅜ ½ ⅝ ¾ ⅞ 1
℔. 9c 6c 4c 3½c 3½c 3½c 3c
Square Tapped.
In. ¼ ⅜ ½ ⅝ ¾
℔. 12c 7½c 5c 4½c 4c
For 5 lb. boxes add ½c per ℔. to above prices.

OILERS.

Chase Pattern
Brass and Copper..... 35¢
Zinc ..... 60¢
Engineers'
Cannon..... 10¢
Tin..... per doz. $2.00@$3.00
Machine.
Ajax..... per doz. $0 80
Copper Plated Steel.. " 1 50
Malleable Iron..... 40, 10&5¢
Tin..... per doz. 55c@65c

OPENERS.

Box.
Inches..... 10 12 14
Flat ..per doz $2.85 3.60 4.15
Round " 2.10 2.25 2.75
Can.
Delmonico..... per doz. $1 30
Never Slip..... " 0 65
Crate.
V. & B..... " 5 75

OUTFITS, COBBLING.

Combination ..... per doz. $11 50
Economical..... " 4 90
Family..... " 10 00

PADLOCKS.

Standard Wrought ..... 70, 10&5¢
Champion ..... 50¢
Eureka..... 40, 10&5¢
Yale ..... 60&5¢

PAILS.

Cream.
14-qt., without Ga.... per doz. $2 75
20-qt., " " .... " 3 25
20-qt., with Gauge.... " 4 20
Sap.
10-qt., Galvanized..... per doz. 1 60
12-qt., " ..... " 1 85
Stock
Galvd. qts. 14 16 18 20
Per doz..... $3.75 4.00 4.65 5.25
Water.
Galvanized, qts 10 12 14
Per doz $1.75 1.95 2.25
Wood.
Cable, 2-Hoop..... per doz. $1 90
" 3-Hoop..... " 2 10
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop..... " 1 50
" 3-Hoop..... " 1 70

PANS.

Dripping..... 60&10&5¢
Fry.
Common..... 60&10&5¢
Acme..... 66⅔&5¢
Roasting.
Brownie..... each 22c@30c
L. & H..... " 45c@60c

PAPER.

Building.
Plain ..... per 100 lbs. $1 15
Tarred..... " 1 25
Tarred Felt..... " 1 80
Diamond A, Red Rosin, pr roll 60
Leader, Red Rosin..... " 45

Sand and Emery.
Ajax ..... 50&10%
B. & A ..... 50&5%
Wrapping.
Grecian Express ..... per ℔. 3½c
Rag ..... " 2½c

PARERS.

Apple.
Bay State ..... per doz. $12 75
Reading ..... " 6 50
Turntable ..... " 5 70
White Mountain ..... " 4 50
Potato.
Goodsell's Saratoga 10½ in. doz. 6 50
" " 5 in.. " 5 50

PICKS.

Adze Eye Ore ..... 65&5%
Drifting and Poll Picks 70%
Ajax Railroad ..... 60&10%
Extra Railroad ..... 70&5%
Surface ..... 65&5%

PINCHERS.

Carpenters', wrought iron, pol. steel jaws 30%
Blacksmith's 50%
P. S. & W ..... 40 &10&5%

PINS.

Clothes.
Common ..... per gro. $0 12
Hoyt's ..... " 30
U. S. ..... " 70
Picket.
Fluted 15 in ..... per doz. $0 70
" 2½ in ..... " 1 60
Spiral ..... " 1 90

PIPE.

Conductor.

	Nested.	Not Nested
Eastern, A	75&2½%	75&2½%
Eastern, B	75, 10&2½%	75&2½%
Central	75&7½%	75%
Southwestern'	70&7½%	70&2½%
Texas	70&7½%	70&2½%
Mo. River	70&7½%	75%
Southern	70&10%	70&5%

Lead.
Full coils ..... per ℔. 6½c
Cut " ..... " 6½c
Stove.

Acme—In.	5	6	7
Smooth, per jt.	10½c	10½c	12½c
Planished "	32c	32c	43c
Peerless—Smooth	8½c	9c	11½c
Polished	16c	18c	22c
Plan'hed	28c	31c	40c
Made-up—In.	5	6	7
Smooth	8½c	9c	12c

7 to 6 in. Smooth Tapers, pr jt..14c
6 in. Smooth T's ..... " ..30c
7 to 6 in. Planished Tapers 45c
Wrought Iron Gas Pipe
⅛@¼-in., black ..... discount, 60%
⅜@½-in. ..... " 60,10&5%
¾-in. to 6-in.. black... " 70%
7 " 12 " .. " 62½%
⅛@¼ " galvanized " 42%
⅜@½ " " " 50%
7 " 6 " " 57½%
7 " 12 " " 45%

PLANES.

Siegley Iron Bench ..... 50&10%

PLANTERS.

Corn.
Monitor ..... per doz..$7 75
Triumph ..... " .. 6 00
Potato.
Acme ..... per doz..$6 25
Challenge ..... " ..10 75
Fencing.
Cronk's ..... per doz..$9 25
Farmers' Choice ..... " .. 8 75
Russell's ..... " .. 8 65
Flat and Round Nose.
Bernard's 30%
German 50%
Lodi 40%
Paragon ..... 40&10%
P. S. & W. Co. 60%
Gas—In. 8 10 12
Per doz $3.10 $4.00 $4.90

PLIERS.

Button's—In. 4½ 6 8 10
Per doz $2.60 $3.10 $3.90 $5.20
Button's Pattern.
In. 4½ 6 8 10
Per doz $2.35 $2.50 $3.45 $4.40
Cutting.
Bernard's 30%
Cronk's Impr'vd Button Pliers..75%
Cronk's Linemans No. 80 ..... 40%
Cronk's Stubbs Pattern ..... 50&10%
Cronk's No. 1 ..... 60&10%
Cronk's Staple Puller Pliers..$9.00
Lodi ..... 40&10&5%
4 Tube, revolving ..... " 5.25

Tinner's.
Hollow ....
Solid ..... each..5½c

PLUMBS AND LEVELS.

Common ..... 75%@75&10%
Cook's 40%
Davis' Iron 30%
Davis' Inclinometer 20%
Stanley's.

Nos.	00S	0S	2S	3S
Per doz.	$4.50	$5.20	$7.60	$8.65
Nos.	30	25	50	35
Per doz.	$13.00	$17.50	$17.50	$12.35

POINTS.

Drive Well Points ..... 75&10%

POKERS—STOVE.

Wr't Iron, str't or bent, per doz. $0.50
Wr't Iron, wood hand'ls " " .75
Nickel pl'td, coil hdl's.. " " .70

POKES—ANIMAL.

Brown's, wr't steel, per doz. $5.00@6.00

POLES—FISHING.

Bamboo.

Ft.	12	18
Per. 100	$2.65	$6.25

POLISH.

Metal.
Pride of the Bar $0.60
Putz Cream.

Pts.	1-6	¼	½
Per doz.	$0.84	$1.25	$1.80

Pts.	1	2	4	8
Per doz.	$3.60	$6.00	$9.00	$18.00

White Silk, half pints, per doz. $2.00
White Silk, 6 oz. cans, per doz. 1.00
Wondershine

Pts.	1-6	½	1	2
Per doz.	$0.68	$1.30	$2.15	$3.00

Shoe.
M. D. C ..... per doz. 36c@50c
F. C. O ..... " 40c
T. M ..... " 55c@$1.25
Imperial ..... per gr $5.00
Stove.
Black Eagle, 1 ℔ cans. pr gr..$15.00
Black Silk—
5 ℔. pail 70c
Paste, 5 oz. cans ..... per doz. $1 00
Paste, ½ ℔. cans ..... " 1 00
Black and Japanned—
Liquid, ½ pint cans.. " 1 00
Liquid, 6 oz. cans... " 75
Steel Range Gloss.. " 1 75
Blackene, 1 ℔ cans ..... pr gro. 13 00
Black Jack, ½ ℔ cans.. " 9 00
Dixon's Carb. of Iron.. " 5 75
Nickel Plate ..... " 4 50

POPPERS, CORN.

Round or Square, 1 qt. per dz, 85@95c
Square, 1½ qt ..... " $1 00
Square, 2 qt ..... " 1 25
1 qt. Reversible ..... " 1 50

POTS, FIRE.

Bernz ..... each $3 85
Clayton & Lambert's, ea..$4 75@6 25
Gate City ..... each 6 25
Gem ..... " 6 75

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co 25%
Henis ..... per doz. $3 10

PRIMERS.

See Ammunition.

PRUNERS.

Disston's Pole ..... per doz $7 50
Henry's Improved ..... " 65&10%
Water's Improved ..... " 70,10&5%

PULLERS.

Cork.
Daisy ..... each $3 40
Phoenix ..... " 1 60
Quick and Easy ..... " 2 90
Nail.
Giant ..... per doz. $9 00@10 50
Giant Pattern. " 00
Tack—Giant ..... " 60

PULLEYS.

Awning—Jap'd ..... 40&5% to 35&5%
Clothes Line ..... 20&10%
Hay Fork.
Iron Wheel, 5 in ..... per doz. $1 85
Wood Wheel, 6 in ..... " 1 80
Wood Wheel, 6 in., pass knot ..... " 2 25
Hot House—Jap'd ..... 30&5%
Screw ..... " ..... 30&5%
Side ..... " ..... 30&5%
Sash.
Chicago ..... per doz. $0 29
Clark's ..... " 42
Common Sense, 2 in.. " 26
" Pattern, 2 in . " 20
Empire ..... " 24
Ideal ..... " 28

PUMPS.

Pitcher Spout.

Nos.	1	2	3	4
Each	$.90	1.00	1.10	1.40

PLATES, TIN.

See Metals in Column 1.
Spray.
Blizzard ..... per doz. $14 25
Cyclone, tin ..... " 3 90
" copper ..... " 6 75
Daisy ..... " 8 75
Little Giant ..... each 2 40

PUNCHES.

Conductors'.
No. 22 ..... per doz. $2 00
Machine ..... per ℔. 0 00
Saddlers'.
Common ..... per doz. 60c@70c
Good ..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure ..... per 100 ℔s. 2 35
Commercial ..... " 2 10

RAIL.

Barn Door.
Light Wrought ..... per ft. 3c
Safety ..... " 4½c
Single Flange ..... " 1½c
Smith's Wro't Bracket, plain 3½c
Smith's Special 4½c
Smith's "Never Jump" 11c 50%
Smith's Plain Steel 30%
Smith's Milled Steel 4½c
Sliding Door.
Painted iron ..... per ft. 4½c
Bronzed wrought iron... " 8½c

RAKES.

Coal or Wood ..... per doz. $5.60
Garden.
Cronk's Champion 70%
Cronk's Victor 75%
Steel, braced ..... 80&10%
Steel, bow 75c
Malleable Iron, heavy ..... 70&7½
Hay.
Wood ..... $1.40@$2 00
Lawn—Wood.
Common ..... per doz. 2 35
Automatic ..... " 5 75
Gibbs' ..... " 3 95
Jumbo, 36 teeth ..... " 6 30

RASPS—See Files.

REGISTERS.

List December 5, 1904.

Black and White Japanned 75%
Nickel Plated 75%
Electroplated, Brass, Bronze or Copper 75%

RINGS

Bull

Copper	2-in.	2½ in	3 in.
Per doz		$1.35	$1.70

Rea's Impro'd Self Piercing

copper, pr d'z.	$1.25	1.50	1.75
Steel per doz		.95	1.05
Nickel Plated		1.35	...

and Ringers—Hog.
Blair's Rings ..... per doz. $0 60
Blair's Ringers ..... " 84
Brown's Rings ..... " 65
Brown's Ringers ..... " 90
Champion Ringers ..... " 1 70
Hill's Ringers ..... " 65
Hill's Ring, boxes ..... " 45
Mazor Rings ..... " 80
Perfect Ringers ..... " 95
Wolverine Rings ..... " 1 50
Wolverine Ringers ..... " 70
Fruit Jar.
White ..... per ℔ 30c
Key.
Split, round ..... per doz. 17c
Split, square ..... " 32c
Ball, Round ..... " 32c

RIVETS.

and Burrs.
Copper Belt ..... 50&5%
Coppered Iron 75%
Tinners' ..... 66⅔@10%
Hame ..... per ℔. $0 00
Slotted Clinch ..... per doz. 40c@45c
Tubular.
Nos. 1 and 2 assorted sizes, doz. 45c

RIVET SETS.

See Sets.

ROPE.

Cotton.
¼, 5-16-in. Com. on reels..per ℔. 12½c
¼, 5-16-in. Com. in coils .. " 13c
¼, 5-16 Imperial in coils . " 22c
Sisyall & Day Sisal Rope.
Rates 10½c
Sisal.
Eagle, rates ..... per ℔. 8½c
Pure Manila.
Rates ..... " 12½c

RULES.

Boxwood 60%
Ivory ..... 35&5%

SASH WEIGHTS.

See Weights.

SAWS.

Back.
Disston's ..... 25&7½%
Jackson's ..... 25&7½%
Butchers'.
Disston's ..... 35&7½%
Circular.
Disston's 50%
Hiles' ..... 50&10%
Compass.
Common ..... per doz. $1.35@$1.60
Disston's ..... 25&7½%
Cross-Cut.
Atkins' 40%
Disston's ..... 40&10% &50%
Pocahontas Bit ..... per ft. 30c
Pocahontas, Blued ..... " 41c
Dehorning.
Atkins' ..... per doz. $5 50
Disston's ..... " 5 75
Hack.
Disston's 25½%
Keystone 33⅓%
Sterling Hack Saw Blades 25%
Sterling Hack Saw Frames 20%
Hand and Rip.
Brown's ..... 30&7½%
Disston's No. 7 ..... 30&7½%
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120 ..... 25&7½%
Gorham's Comb. ..... 30&7½%
Keystone ..... 30&7½%
Sam Sickles', hand ..... per doz. $4 25
"I Will," hand ..... " 5 75
"I Will," rip ..... " 6 75
Keyhole—Disston's ..... 25&7½%
Kit hen.
Sterling 25%
One Man 50%
Panel.
Brown's ..... 30&7½%
Disston's No. 7 ..... 30&7½%
Disston's No. D100 ..... 25&2½%
"I Will" 40%
Pruning.
Avery's Duplex ..... 25&7½%
Brown's ..... 25&7½%
Disston's ..... 25&7½%
Wood.
Common ..... per doz. $4 50
Handy ..... " 7 50
Happy Medium ..... " 7 00
Wood Sawyers' Delight " 8 25

SAW BUCKS—See Bucks.
SAW SETS—See Sets.
SAW TOOLS—See Tools.

SAW FRAMES.

Common, plain ..... per doz. $1 20
" painted ..... " 1 60

SCALES.

Counter.
Pelouze ..... 40&10%
Platform.
Osgood 50%

SCOOPS.

Grain.
½ Bu. "Hercules,"..per doz. $13 75
1 " " " 15 50

SCRAPERS.

Box.
Stanley's Adjustable, per doz. $3 60
Triangular ..... " 2 50
Cabinet.
Ajax ..... per doz. $2 25
Cast Steel ..... " 65c@75c
Stanley's No. 80 ..... " $8 40
Road.

Cubic ft.	7	5	3
Without runners, ea.	$4.15	3.90	3.65
With runners	4.00	4.15	3.90

SCREWS.

Bench.
Iron ..... 50&5%
Wood, white maple..per doz. $3 60
Hand—Wood 20%
Hand Rail ..... 70&10%
Jack ..... 75&5%
Lag or Coach—all sizes, gimlet pointed 80%
Saw—Centennial.

Nos.	1	2	3	4	5	6
Per doz.	19c	22c	27c	32c	25c	27c

Wood.
F. H. Bright Steel ..... 87½, 10&10%
R. H. Blued Steel ..... 85&5%
F. H. Jap'd Steel ..... 82½&5%
F. H. Brass ..... 85&5%
R. H. Brass ..... 80&5%
R. H. Nickel Plated 75%

SCYTHES.

Clipper, grain ..... per doz. $7 75
Clipper, grass ..... " 6 00

SETS.

Nail.
Round, common.....per doz. $0 33
Square, " ..... " 42
Octagon " ..... " 33
Square, Buck Bros.. " 1 25
Cup Point, knurled, pr. doz.70c@90c
Rivet.
Farmers'.....per doz. $1 45
Tinners'.....50&10%
Saw.
Aiken's Pattern.....per doz. $3 50
Common Lever..... " 1 20
Disston's Monarch... " 6 50
" X Cut..... " 11 75
German ..... " 1 35
Morrill's Old Style... " 5 00
" Pattern.... " 4 50
Leach's..... " 4 80
Nashe's Hand..... " 4 00
" X Cut..... " 5 50
Stillman's Lever..... " 1 30
" X Cut..... " 2 50

SHARPENERS, SKATE.

Diamond.....per doz. $1 60

SHAVES, SPOKE.

Iron.....per doz. $1.35@$2.75
Wood..... " 2.75@ 4.75
Bailey's.....50&5%
Goodell's.....15%
Stanley's Universal.....30&5%

SHEARS.

Pruning.
Buckeye, No. 1.....per doz. $6 75
" No. 2..... " 8 40
California Pat., 9 in.. " 4 25
" " 10 in.. " 5 00
Draw Cut, No. 3..... " 14 75
" " No. 4..... " 17 50
Henry's Pat. 0 01 14 012
Per doz.....$1.90 $2.50 $3.15 $3.50
Star.....per doz. $4.75
Sheep—No. BBA.
Inches..... 6 6½ 7
Reg. Grip..... $11.25 $11.50 $12.00
Nar. Grip, doz. 11.75 12.00 13.00
Tinners'—See Snips.

SHEAVES, SLIDING DOOR.

Common.
Inches..... 3 4 5
Per set..... $0.42 $0.48 $0.70
Hatfield's.
Per set..... .75 1.00 1.60

SHELLS—See Ammunition.

SHELLERS, CORN.

Union..... per doz. $7.25

SHIELDS.

Expansion Bolt Shields.....50&10%

SHOES.

Conductor.
5-inch.....each 75c; per doz. $ 8.64
6 " ..... " 80c; " 10.18
75% discount to dealers on 2-inch, 3-inch and 4-inch plain, round and round corrugated shoes.

SHOE POLISH—See Polish.

SHOT—See Ammunition.

SHOVELS AND SPADES.

Coal.
No. 2 Ajax.....per doz. $5 25
No. 4 Golds..... " 6 ⅝
Ames' new list.....Discount 12½%
Drain.
Iwan's Perfection.....50%
Railroad, Etc.
Gold Hibbard's.....per doz. $9 25
C. H. Conover's..... " 7 75
Beckwith's..... " 7 75
Hickory..... " 6 25
Greenleaf's..... " 5 25
Columbus..... " 5 00
Ames' new list.....Discount 12½%
Snow.
Per doz.....$1.65@$9.00

SIFTERS.

Hunter's Genuine.....per doz. $1.10
" Imitation..... " .90
Tin Rim, 16 mesh plain wire " 1.35
Wood " 16 " " " " .80

SINKS.

Cast Iron.
Painted.....10&5%
Enameled, White.....60-10&10%
Wrought Steel.
Painted, new list.....40-10&5%

SLEDGES—See Hammers.

SNAPS, HARNESS.

Champion.....65%
German Pattern.....30&5%
Judd's Pattern.....60&10%@70%

SNATHS.

Double Ring, Bush.....per doz. $6 75
Patent Loop " .... " 7 30
" " Grass..... " 6 00

SNIPS, TINNERS'.

Hernisch's.....40&5%
National.....40&5%
P. S. & W. Co's.....25&5%

SOLDER—See Metals.

SPRINGS, DOOR.

Perfect.
Nos..... 1 2 3 4
Per doz.... 28c 33c 35c 40c
Reliance.
Per doz.....light $1.40; heavy $2.20
Star.
Per doz..... light 90c; heavy $1.30
Torrey's.....per doz. $1.30
Warner's No..... 11 12
Per doz..... 70c $1.30

SQUARES.

Steel and Iron.....75%
(Add for Bluing, $2.50 per doz., net)
Mitre.
Stanley's No. 12.....40%
Try.
Stanley's No. 20, new list...30&10%
" No. 12 and 14.....40%
Try and Bevel.
Stanley's.....40&5%
Try and Miter.
Fox's.....per doz. $7.25
Winterbottom's.....50%

SQUEEZERS, LEMON.

Common Wood.....per doz. $0 70
Porcelain Lined, Wood. " 1 30
Boss, tinned iron..... " 82
Pearl, nickel plated..... " 1 30
Star, " " ..... " 1 60
Little Giant, tin'd iron. " 4 25
King..... " 2 50
Drum..... " 4 75

STAPLES.

Blind.
Barbed.....per ℔ 9½@10c
Butter Tub..... " 8@8½
Fence—less than carload.
Polished.....per 100 ℔ $2 20
Galvanized..... " 2 50
Netting.
Galvanized.....per 100 ℔ 3 90
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples.....85-10&5%
Extra heavy.....75&10%

STEELYARD.

Discount 25%

STONES.

Axe.
Hindostan.....per ℔ 5½@7c
More Grit..... " 9½c
Washita ..... " 16½c
Emery.....60%@60&5%
Oil—Mounted.
Arkansas Hard.....per ℔ $2 00
Arkansas Soft..... " 1 15
Hindostan..... " 6½@6½
Oil—Unmounted.
Lily White.....per ℔ 43c
Queer Creek..... " 14½c
Ouachita..... " 36c
Washita ..... " 25c
Sythe.
Black Diamond.....per gro. $7 75
Clear Grit..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 20
La Motte ..... " 7 00
White Mountain..... " 6 50
Willoughby Lake..... " 6 25
Red End..... " 3 15

STOPS, BENCH.

Hotchkiss'.....per doz. $3 60

STOPPERS, FLUE.

Common.....per doz. $0 42
Crown ..... " 48
Gem, flat, painted..... " 72
Gem, cor'd, decorated.. " 68
Kirch's..... " 1 20
Peerless..... " 72
Skinner's Common Sense " 95

STOVE PIPE—See Pipe.

STOVE BOARDS—See Boards.

STRAPS.

Scoop.....per doz. prs. $1 80
Skate..... " " 60@70c

STRETCHERS.

Carpet.
Bullard's.....per doz. $3 90
Excelsior..... " 6 00
Malleable Iron..... " 70
Perfection..... " 6 00
King..... " 4 50
Wire.
N. S. Elwood's..... " 6 25
O. S. Elwood's..... " 6 25
Little Giant..... " 5 75
Star Lever..... " 6 25
Star Tackle Block.... " 9 00
Warner's..... " 6 25

SWIVELS.

Malleable Iron.....per ℔ 5½c
Wrought Steel.....per gro. $4 50

TACKS.

American Cut.....90&5%
American Wire.....85&25&10%
Bill Posters Cut.....90&35%
Blued Carpet.....90 & 5%
Tinned Carpet.....90&10%
Gimp.....90&35%
Upholsters' Cut.....90&40&5%
Upholsters' Wire.....90&35%
Double Pointed.....90&20%
Copper.....per ℔ 32c
Canvas Nails.....75&5%
Clout Nails .....75&5%
Hungarian Nails.....80&5%

TAPES, MEASURING.

Asses' Skin.....40&10%
Bend Leather.....25%
Patent Leather.....25%
Lufkin s Steel.....30%
Lufkin's Metallic.....30%

TEE BEVELS—See Bevels.

THERMOMETERS.

Tin Case.....per doz. 95c@$1 25
Wood Back..... " $1.75@ 9 00
Glass..... " 15 50

TIES.

Bale.
Single Loop.....80&7½%
All other kinds.....65&10%
Cow—See "Chains."

TOOLS, SAW.

Atkins' Dexter.....per doz. $4 25
Atkins' Excelsior..... " 6 25
Disston's Universal.....40%

TRAPS.

Fly.
Balloon.....per doz. $1 00
Harper's..... " 1 25
Game.
Newhouse.....50%
New Victor.....75&10%
Mole.
Reddick's.....per doz. $5 75
Mouse and Rat.
Wood Choker.....per hole $0 11
Tin Choker..... " 60
Delusion.....per doz. 85
Imitation Sight, Rat. " 80
Marty Rat..... " 6 75
Marty Rat Imitation.. " 3 75
Marty Mouse..... " 3 15
Marty Mouse Imitation " 2 10
French Automatic.....each 3 60

TROWELS.

Brick.
Standard.....30%
Brade's.....10&7½%
Disston's.....30%
Rose's.....25%
Plasterers.
Standard.....33⅓%
Disston's.....30%
W. & McP.....25%

TRUCKS.

Bags.....each $1 70
Handy..... " 1 50
Warehouse.....60&5%

TUBS, WASH.

No.	1	2	3
Half Ironed....	$2.60	$3.40	$5.00
Full Ironed....	3.90	5.75	6.75

TUBS, WASH.

Standard.				Ex.
Nos.....	3	2	1	large
Per doz....	$5.25	$6.25	$7.25	$ 9.75
Dowell.				
Per doz....	5.60	6.60	7.50	10.00
Cedar.				
Per doz....	6.50	7.50	8.25	.....
Indurated.				
Per doz....	7.20	7.95	9.45	11.70
Galvanized.				
No.....	1	2	3	
Per doz.....	$5.25	$5.75	$6.50	

TWINE.

	Per ℔
3-ply Cotton Wrapping	21c
4 " " "	21c
4 " " Extra Wrappings	27c
4 " " " Hvy. Wrappings	26c
4 " " Wrapping on tubes	23c
3 " " " " cones	23c
4 " " " " "	23c
India Hemp, ¼-lb. balls	18c
" " ½-lb. "	17c
" " ¼-lb. " doz.	65c
2-ply " ¼-lb. "	11½c
3-ply " ¼-lb. "	11½c
Jute Wrappings, ¼-lb. balls	11½c
Jute Wool, 1-℔. balls	6c
Seine.	
Nos..... 6 9 12	15+
Soft, per ℔ .24 21½ 20½	20
Med. " 21½ 20½	20
Hard " 23½ 22½	22
Staging, ¼-lb. ball, size 21	20½c
" " " " 24	20c
" " " " 27	20c
Bagging " "	22c
3-ply "B" in hanks	19c
4 " "B" "	19c
3 " "A" "	29c
3 " Silver Finish, in hanks	39c
Fodder or Lath.	
130-strand	8c
200-strand	8½c

VISES.

Bonney's.....30%
Cheney's 30%
Parker's Oval Slide .....
.....50, 10, 2½% @ 50 10, 5, 2½%
Parker's Parallel.....15&20%
Parker's Victor.....10%
Parker's Combination.....50&10%
Solid Box.....60&5%
Adam's Mechanics'.....each 2 65
Williamson Universal.....20%

WARE.

Cast-Iron Hollow.
Ground.....50&10%
Unground .....60&5%
Extra Finished.....40&10
White Enameled.....40, 10&5%
Enameled.
Cherry Blossom and Chrysolite..50%

WASH BOARDS—See Boards.

WASHERS.

Standard O. G. cast iron...per ℔. 2½c
Wrought iron in bulk per ℔.:

In.	½	⅝	¾	⅞	1
	7½c	5½c	4c	3½c	3½c	3½c	3½c

Wrought steel in 5 ℔. boxes, per ℔.

In.	½	⅝	¾	⅞	1
	8½c	6½c	5c	4½c	4½c	4½c	4½c

WASHING MACHINES—See Machines.

WEDGES.

Ax.....per doz....30c
Galling .....per ℔ 10½c
Saw ..... " 8½c

WEANERS.

Calf.
Fuller's, per doz.....$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz..... 2 50 to 3 25
Standard, per doz..... 2 75
Hoosier, per doz..... 3 10 and 4 15

WEIGHTS.

Hitching ....per ℔ 2½c
Sash—F.O.B. Chicago...pr ton $22 00

WHEEL BARROWS.

Common Railroad ...per doz..$15 50
Heavy " .... " .. 19 50
Railroad, ball bearing " .. 19 00
Favorite Steel Tray.. " .. 25 00
No. 04 Steel Dirt.... " .. 47 00
No. 04½ " " .... " .. 50 00

WHEELS.

Corundum .....70&10&5%
Emery .....75&5%
Well In. 8 10 12 14
Per doz.....$1.90 $2.20 $3.00 $5.50

WIRE.

Barbed	Painted.	Galv'd.
Carloads..per 100 lbs..	$2.15	$2.45
Less than car " ..	2.20	2.50

Brass.
In coils.....20%
In 1 ℔ spools, new list.....50&10%
Broom—Tinned.....60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils.....20&10%33⅓%
In 1 ℔ spools, new list .....50&10%
Fence—Smooth.
Nos. 6 to 9, An'eal'd,pr 100 lbs. $1.95
Nos. 6 to 9, Galvi'd... " 2.25
Hair—New list.....50&10%
Market.
Bright, full bdles.....70&10%
Bright, broken bdles 70%
Coppered, full bdles.....70%
Coppered, broken bdles.....65&10%
Tinned, full bdles.....70&5%
Tinned, broken bdles.....65&10%
Picture—In coils.....80%@80&10%
In 5 ℔. spools .....per ℔..26c
Plain—Small lots.....$2.00
Car lots 1.95
Small spools 5c per hundred higher.

WRENCHES.

Acme Standard.....55%
Alligator ....70&10%
Always Ready.....50%
Bemis & Call No. 2 Improved Pipe Wrenches.....60%
Coe's Standard.....40&10%
Girard's Agricultural.....75&10%
P. S. & W. Co.'s Agricultural 75&10%
" " " Knife H'dle..50&5%
Wescott's "S".....33⅓%
Malleable "S".....per ℔. 05½c
Malleable..... " 05½c
Stillson Pipe.....60&10%
Trimo " .....60&10%

WRINGERS.

Clothes.
No. 22, Guarantee....per doz.$28 00
No. 110, Guarantee.... " 29 00
No. 110, Brighton..... " 21 00
No. 22, Pioneer..... " 20 00
No. 2, Superb..... " 19 50
No. 730, Easy..... " 26 00
No. 500, Royal ..... " 30 00
No. 350, Universal.... " 25 50
No. 300, Novelty..... " 25 50
No. 310, Keystone .... " 25 50
No. 100, Rival ..... " 21 00

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Hopkins Bros., Springer Co. DesMoines, Ia

Burrs—Copper

Plume & Atwood Mfg. Co., Chicago, Ill

Cans

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Carpenters' Tools

Hurwood Mfg. Co., Bridgeport, Ct
Ohio Tool Co., Columbus, O
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Cartridges

Peters Cartridge Co., Cincinnati, O

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Taylor & Boggis Fdy. Co., Cleveland, O
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Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Steel Roofing Co., Canton, O
Eller, J. H. & Co., Canton, O
Friedley & Voshardt, Chicago, Ill
Illinois Roofing & Supply Co., Chicago, Ill
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Cement Tools

Kramer Bros. Fdy. Co., Dayton, O

Chains

Bridgeport Chain Co., Bridgeport, Ct
Oneida Community, Oneida, N.Y

Clothes Dryers

Hill Dryer Co., Worcester, Mass

Coal—Artificial

Williams Stove Lining Co., Taunton, Mass

Coffee Mills

Enterprise Mfg. Co., of Pa., Philadelphia

Conductor Hangers

Berger Bros. Co., Philadelphia, Pa

Conductor Pipe

Badger Steel Roofing Co., La Crosse, Wis
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Cornice Brakes

Bertsch & Co., Cambridge City, Ind
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Walker Tool Co, Lansing, Mich

Corrugated Iron

Garry Iron & Steel Co., Cleveland, O
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Taplin Mfg. Co., New Britain, Ct

Elbows—Conductor Pipe

Dieckmann, F., Cincinnati, O

Electrotypes

St. Louis Electrotype Fdy., St. Louis, Mo

Elevators

Kimball Bros. Co., Council Bluffs, Ia

Enamel Ware

Avery Stamping Co., Cleveland, O
Nat'l Enamel. & Stamp. Co., Milwaukee
Vollrath Mfg. Co., Chicago, Ill

Enameling

Hooper, C. N., Dubuque, Ia
Pell, John Enameling Wks., Columbus, O

Faucets

Litchfield, J. M., New York, N.Y

Fence Gates

Denning Wire & Fence Co., Cedar Rapids, Ia

Files

Barnett, G. & H. Co., Philadelphia, Pa
Disston Henry & Sons, Philadelphia, Pa

Flue Stoppers

Stuber & Kuck, Peoria, Ill

Forming Rolls

Bertsch & Co., Cambridge City, Ind
Globe Mch. & Stamp. Co., Cleveland, O
Niagara Mch. & Tool Wks., Buffalo, N.Y
Walker Tool Co., Lansing, Mich

Foundry Supplies

Obermayer, S. Co., Cincinnati, O
Zucker & Levett & Loeb Co., New York

Furnaces—Hot Air

Beckwith, Estate, P. D. Dowagiac, Mich
Bergstrom Stove Co., Neenah, Wis
Boynton Furnace Co., Chicago, Ill
Craig-Reynolds Fdy. Co., Dayton, O
Excelsior Steel Furnace Co., Chicago, Ill
Grossius Furn. Co., Cincinnati, O
Henry & Scheible Co., Cleveland, O
Kelsey Heating Co., Syracuse, N.Y
Kontny, John, Chicago, Ill
Kruse & Dewenter, Indianapolis, Ind
Lennox Furnace Co., Marshalltown, Ia
March-Brownback Stove Co., Pottstown, Pa
Meyer Furn. Co., Peoria, Ill
Monroe Fdy. & Furn. Co., Monroe, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis
Pittsburgh Stove & Range Co., Pittsburgh, Pa
Portsmouth Stove & Range Co, Portsmouth, O
Schwab & Sons Co., Milwaukee, Wis
Shumway & Sons, Batavia, Ill
Smith, Chas, Co., Chicago, Ill

Furnace Pipe and Fittings

Excelsior Steel Furn. Co., Chicago, Ill
Meyer, F. & Bro. Co., Peoria, Ill
Michigan Safety Furn. Pipe Co., Detroit
Mueller, L. J. Furn. Co., Milwaukee, Wis
Nat'l Enam. & Stamp. Co., Milwaukee

Furnace Repairs

Des Moines Stove Repair Co., Des Moines, Ia
Dust, Wm. T. Co., Detroit, Mich
Morris Stove Repair Co., Chicago, Ill

Furnace Rings

Walworth Run Fdy. Co., Cleveland, O

General Merchandise

Silver & Co., Brooklyn, N.Y

Glass Cutters

Smith & Hemenway, Corp., Ltd. New York

Hammers

Franklin Specialty Co., Reading, Pa

Hangers—Trouser

Pullman Mfg. Co., Rochester, N.Y

Hardware Jobbers
Clark, Quien & Morse, Peoria, Ill
Lee-Glass-Andreesen Hdw. Co., Omaha

Hardware Specialties
Columbian Hdw. Co., Cleveland, O
Hoerle, W. M., Allegheny, Pa
Johnston, W. H. Mfg. Co., Peoria, Ill

Hatchets
Franklin Specialty Co., Reading, Pa

Hay Carriers
Porter, J. E., Co., Ottawa, Ill
Richards Mfg. Co., Aurora, Ill
Stowell Mfg. & Fdy. Co., Milwaukee

Heaters—Steam and Hot Water
American Radiator Co., Chicago, Ill
Boynton Furnace Co., Chicago, Ill
Craig-Reynolds Fdy. Co., Dayton, O
Great Western Heater Co., DesMoines, Ia
Monroe Fdy. & Furn. Co., Monroe, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis

Hinges—Spring
Bommer Bros., Brooklyn, N.Y
Columbian Hdw. Co., Cleveland, O

Hoes
Sandusky Tool Co., Sandusky, O

Hollow Ware
Avery Stamping Co., Cleveland, O
Sperry, D. R. & Co., Batavia, Ill

Hot Water Attachments
Smith Co., Chas., Chicago, Ill

Ice Cream Freezers
Dana Mfg. Co., Cincinnati, O
North Bros. Mfg. Co., Philadelphia, Pa

Ice Picks
Franklin Specialty Co., Reading, Pa
Hurwood Mfg. Co., Bridgeport, Ct

Kitchen Utensils
Enterprise Mfg. Co. of Pa., Philadelphia
Silver & Co., Brooklyn, N.Y
Taplin Mfg. Co., New Britain, Ct

Land Boats
Johnston, W. H. Mfg. Co., Peoria, Ill

Lanterns
Berger Mfg. Co., Canton, O
Hurwood Mfg. Co., Bridgeport, Ct

Lawn Mowers
Clipper Lawn Mower Co., Dixon, Ill
Philadelphia Lawn Mower Co., Philadelphia, Pa

Levels
Chapin-Stephens Co., Pine Meadow, Ct
Ohio Tool Co., New York, N.Y
Stanley Rule & Level Co., New Britain, Ct

Lighting Systems
Superior Mfg. Co., Ann Arbor, Mich

Lightning Rods
Maher & Son, Preston, Ia

Locks
Taylor & Boggis Fdy. Co., Cleveland, O

Mail Boxes
Blick-Williams Co., Indianapolis, Ind
Folsom, C. G., South Bend, Ind
Signal Mail Box Co., Joliet, Ill
Smith Bros. Mfg. Co., Indianapolis, Ind

Meat Choppers
Enterprise Mfg. Co. of Pa., Philadelphia

Metal Polish
Hoffman, Geo. W., Indianapolis, Ind

Metal Shingles
Burton, W. J. Co., Detroit, Mich
Cortright Metal Roofing Co., Philadelphia
Nat'l Sheet Metal Roof. Co., Jersey City

Mica
Brauer, A. G St. Louis, Mo
Dust, Wm. T. Co. Detroit, Mich
Morris Stove Repair Co., Chicago, Ill

Nail Pullers
Smith & Hemenway, Corp., Ltd. New York

Nuts
American Lock Nut Co., Oregon, Ill
Atlas Bolt & Screw Co., Cleveland, O
Columbus Bolt Works, Columbus, O

Oil Cans
Cooney & Geiger, Indianapolis, Ind

Paints
Connors, Wm. Paint Mfg. Co., Troy, N.Y
Dixon, Jos. Crucible Co., Jersey City, N.J

Pattern Letters
St. Louis Electrotype Fdy., St. Louis

Pencils
Dixon, Jos. Crucible Co., Jersey City, N.J

Perforated Metal
Harrington & King Perforating Co., Chicago, Ill

Planes
Chapin-Stephens Co., Pine Meadow, Ct
Ohio Tool Co., Columbus, O
Sandusky Tool Co., Sandusky, O
Stanley Rule & Level Co., New Britain, Ct

Plyers
Hurwood Mfg. Co., Bridgeport, Ct

Printing
Blakely, Vern, North Girard, Pa

Pumps
Beckman Bros., Des Moines, Ia
Berger Mfg. Co., Canton, O

Punches
American Lock Nut Co., Oregon, Ill
Bertsch & Co., Cambridge City, Ind
Globe Mch. & Stamp. Co., Cleveland, O
Niagara Mch. & Tool Wks., Buffalo, N.Y
Walker Tool Co., Lansing, Mich
Weiss, H. & Co., New York, N.Y

Radiators
American Radiator Co., Chicago, Ill

Rasps
Barnett, G. & H. Co., Philadelphia, Pa
Disston, Henry & Sons., Philadelphia, Pa

Registers
Foster, C. H., St. Louis, Mo
Henry & Scheible Co., Cleveland, O
Mueller, L. J., Furn. Co., Milwaukee, Wis
Schwab & Sons Co., Milwaukee, Wis
Stowell Mfg. & Fdy. Co., Milwaukee, Wis
Walworth Run Fdy. Co., Cleveland, O
Waterloo Register Co., Waterloo, Ia

Roofing—Asphalt
Asphalt Ready Roofing Co., New York
Stowell Mfg. Co., Jersey City, N.J

Roofing—Iron and Steel
Badger Steel Roofing Co., La Crosse, Wis
Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Steel Roofing Co., Canton, O
Cortright Metal Roof. Co., Philadelphia
Follansbee Bros. Co., Pittsburgh, Pa
Friedley & Voshardt, Chicago, Ill
Garry Iron & Steel Co., Cleveland, O
La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn
Sykes Steel Roofing Co., Chicago, Ill

Roofing Cement
Connors, Wm. Paint Mfg. Co., Troy, N.Y
Garry Iron & Steel Co., Cleveland, O

Roof Paint
Conners, Wm. Paint Mfg. Co. Troy, N.Y
Dixon, Jos. Crucible Co., Jersey City, N.J
Garry Iron & Steel Co., Cleveland, O
Stowell Mfg. Co., Jersey City, N.J

Rules
Chapin-Stephens Co., Pine Meadow, Ct
Lufkin Rule Co., Saginaw, Mich
Stanley Rule & Level Co., New Britain, Ct

Sad Irons
Enterprise Mfg. Co. of Pa., Philadelphia, Pa

Sash Balances
Pullman Mfg. Co., Rochester, N.Y

Saw and Saw Sets
Atkins, E. C. & Co., Indianapolis, Ind
Disston, Henry & Sons, Philadelphia, Pa

Scales
Beckman Bros., Des Moines, Ia
Osgood Scale Co., Binghamton, N.Y

Screen Hinges
Kees, F. D., Beatrice, Neb
Screen & Storm Window Fastener Co., New Castle, Neb

Screws
Atlas Bolt & Screw C Cleveland, O
Columbus Bolt Works, Columbus, O

Screws—Hand
Chapin-Stephens Co., Pine Meadow, Ct
Ohio Tool Co., Columbus, O
Sandusky Tool Co., Sandusky, O

Screw Drivers
Hurwood Mfg. Co., Bridgeport, Ct
North Bros. Mfg. Co., Philadelphia, Pa
Smith & Hemenway, Corp., Ltd. New York

Shears
Bertsch & Co., Cambridge City, Ind
Niagara Mch. & Tool Wks., Buffalo, N.Y
Weiss, H. & Co., New York, N.Y

Sheet Metal Specialties
Friedley & Voshardt, Chicago, Ill
Kinne Mfg. Co., Minneapolis
St. Paul Roofing Co., St. Paul, Minn

Sheets—Black and Galvanized
Berger Mfg. Co., Canton, O
Badger Steel Roofing & Corrugating Co., La Crosse, Wis
Interstate Steel Co., Brackenridge, Pa

Shelf-Brackets
Atlas Mfg. Co., New Haven Ct

Shelving—Hardware
American Bolt & Screw Case Co., Dayton, O
Warren, J. D. Mfg. Co., Chicago, Ill

Shovels
Avery Stamping Co., Cleveland, O
Kohler, F. E. & Co., Canton, O
Star Shovel & Range Co., Vincennes, Ind

Sifters
Stuber & Kuck, Peoria, Ill

Skylight Gearing
Weiss, H. & Co., New York, N.Y

Slate
Auld & Conger Co., Cleveland, O
Johnson, E. J. & Co., New York, N.Y
O'Halloran & Jacobs, Pittsburgh, Pa

Soldering Furnaces
Burgess Soldering Furn. Co., Columbus, O
Clayton & Lambert Mfg. Co., Detroit
Diener, Geo. W. Mfg. Co., Chicago

Soldering Irons
Bartholow, W. P., Minneapolis, Minn
Emmelmann Bros. Mfg. Co., Indianapolis

Sporting Goods
Enterprise Mfg. Co., Akron, O

Squares, Machinists'
Disston, Henry & Sons, Philadelphia, Pa
Stanley Rule & Level Co., New Britain, Ct

Stampings—Sheet Metal
Globe Machine & Stamping Co., Cleveland, O
Hoerle, W. M., Allegheny, Pa

Staples
Titchener & Co., Binghamton, N.Y

Stoves and Steel Ranges
Beckwith, P. D. Estate Dowagiac, Mich
Bergstrom Stove Co., Neenah, Wis
Born Steel Range Co., Cleveland, O
Culter & Proctor Stove Co., Peoria, Ill
Gem City Stove Co., Dayton, O
Harkins, T. B. Fdy. Co., Bristol, Pa
Joliet Stove Works, Joliet, Ill
Kontny, John, Chicago, Ill
Malleable Iron Range Co., Beaver Dam, Wis
March-Brownback Stove Co., Pottstown, Pa
Marion Stove Co., Marion, Ind
Pittsburgh Stove & Range Co. Pittsburgh, Pa
Portsmouth Stove & Range Co., Portsmouth, O
Star Shovel & Range Co., Vincennes, Ind
Toledo Stove & Range Co., Toledo, O
Van, John Range Co., Cincinnati, O

Stoves—Gas
Pittsburgh Stove & Range Co., Pittsburgh, Pa
Silver & Co., Brooklyn, N.Y

Stoves—Gasoline
Detroit Vapor Stove Co., Detroit, Mich

Stoves—Oil
Nat'l Enamel. & Stamp. Co., Milwaukee
Silver & Co., Brooklyn, N.Y
Taylor & Boggis Fdy. Co., Cleveland, O

Stove Carriers
Kramer Bros. Fdy. Co., Dayton, O

Stove Casters
Kramer Bros. Fdy. Co., Dayton, O

Stove Cement
Dixon, Jos. Crucible Co., Jersey City, N.J

Stove Clay
Bridgeport Crucible Co., Bridgeport, Ct
Nickel Plate Stove Polish Co., Chicago
Williams Stove Lining Co., Taunton, Mass

Stove Linings
Williams Stove Lining Co., Taunton, Mass

Stove Mats
Stuber & Kuck, Peoria, Ill

Stove Patterns
Cope Pattern Wks., Detroit, Mich
Harkins, T. B. Fdy. Co., Bristol, Pa
Quincy Pattern Co., Quincy, Ill
Vedder Pattern Works, Troy, N.Y
Weller Pattern Co., Quincy, Ill

Stove Pipe
Dunlap Mfg. Co., Dunlap, Ia
Excelsior Steel Furn. Co., Chicago, Ill
Kinne Mfg. Co., Minneapolis

Stove Pipe Thimbles
Stuber & Kuck, Peoria, Ill

Stove Polish
Nickel Plate Stove Polish Co., Chicago
Silver Leaf Stove Polish Co., Indianapolis, Ind

Stove Repairs
Brauer, A. G., St. Louis, Mo
Buckeye Fdy., St. Paul, Minn
Des Moines Stove Repair Co., Des Moines, Ia
Dust, Wm. T. Co., Detroit, Mich
Kramer Bros. Fdy. Co., Dayton, O
Manufacturers' Stove Repair Co., Chicago
Morris, S ove Repair Co., Chicago, Ill

Sugar Kettles
Sperry & Co., Batavia, Ill

Tapes
Lufkin Rule Co., Saginaw, Mich

Tinplate
Berger Mfg. Co., Canton, O
Canton Steel Roofing Co., Canton, O
Eller, J. H. & Co. Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Garry Iron & Steel Co., Cleveland, O
Illinois Roofing & Supply Co., Chicago, Ill
Lee-Glass-Andreesen Hdw. Co., Omaha
McClure Co., Philadelphia, Pa
Merchant & Co., Philadelphia, Pa

Tinware
Nat'l Enamel. & Stamp. Co., Milwaukee
Stuber & Kuck, Peoria, Ill
Vollrath Mfg. Co., Chicago, Ill

Toilet Paper Holders
Franklin Specialty Co., Reading, Pa

Trowels
Avery Stamping Co., Cleveland, O
Disston, H. & Sons, Philadelphia, Pa

Ventilators
Friedley & Voshardt, Chicago, Ill
Globe Ventilator Co., Troy, N.Y
Merchant & Co., Philadelphia, Pa
Powers Bros., Streator, Ill

Washing Machines
Benbow-Brammer Mfg. Co., St. Louis, Mo
Boss Washing Machine Co., Cincinnati, O
Brammer, H. F. Mfg. Co., Davenport, Ia
Clark, Quien & Morse, Peoria, Ill
Voss Bros. Mfg. Co., Davenport, Ia
White Lily Washer Co., Davenport, Ia

Water Coolers
Major, A., New York, N.Y

Window Fasteners
Safety Window Lock & Ventilator Co., Chicago, Ill
Screen & Storm Window Fastener Co., New Castle, Neb

Wire Anchors
Lenawee Mfg. Co., Adrian, Mich

Wire Goods
Denning Wire & Fence Co., Cedar Rapids, Ia
Titchener Co., Binghamton, N.Y

Wants and Sales:

For yearly subscribers to THE AMERICAN ARTISAN will be inserted under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES.

PATENTS

HUBERT E. PECK, 623 F St., N. W., Washington, D. C. Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications."

For Sale—A business established 15 years will sell cheap on account of death, one set of tinner tools and stock; all in good order cheap for cash. Address The Allison-Hill Tin, Sheet Iron & Furnace Co., 634 18th St., Denver, Colo. 13

For Sale—A good clean stock of hardware, stoves, paint, etc., tinshop in connection, in Wisconsin town of 2,000 inhabitants; splendid farming country surrounding town; stock will invoice about $7,000; last year's sale about $16,000; reason for selling, sickness; no traders considered. Address Wisconsin, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13

For Sale or Rent—Dwelling house and store; reason for selling out, old age and sickness; for more particulars write to G. A. Haentze, Boltonville, Wis., Lock Box 126. 13

For Sale—$4,500 stock hardware, stoves, paints, etc. Will invoice; owner wants to go west. Town of 1,200; fine farming country. Address Lock Box 14, Remington, Ind. 12

For Sale—First-class plumbing, heating and cornice and metal business in best locality southern Minnesota, center of richest farming country, with established business. Have several contracts on hand and good force of help that will stay with buyer. Selling on account of health. Address Metropolitan, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 12

For Sale—Stock of hardware and stoves located in Mt. Carroll, Ill. Stock $3,000 to $4,000, in good condition. Owner going out of business. Brick store can also be rented or bought, stock of tinners' tools in good condition and tinners' trimmings can also be bought separately. Address Otto Jensen, Mt. Carroll, Ill. 12

For Sale—All or one-half of $7,000 stock of hardware, in a county seat town of 4,000 inhabitants, in the best part of Iowa, yearly sales about $25,000; only three stocks in town, location good, rent reasonable, special terms if taken soon. Address Hardware, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 12

Wanted—To exchange an equity of $7,200 in a 240 acre farm of good St. Croix Co., Wisconsin, land, with good improvements, for a good stock of hardware. Address Box 64, Rudolph, Wis. 11

TINNERS' TOOLS.

Wanted—A good second-hand lathe with screw cutting attachment. Address Bradberry Bros., Hurley, S. D. 13

For Sale—One complete set of tinners' tools in first-class condition. Will sell for cash very cheap. Reason, going out of business. Address M. A. T., Post Office Block, Painesville, O. 12

Wanted—A second hand crimper in good repair. Cheap. Address Fitch Mfg. Co., Wayland, Mich. 12

Wanted—Second-hand forming roll 3 inches or larger and 30 inches or longer, also a hand punch and shears for ¼ in. Address G. B. Blair, Juda, Wis. 12

Wanted—To buy second-hand 8-foot cornice brake. Address Hall Bros. Co., Lincoln, Neb. 11

HELP WANTED.

Wanted—A good all around tinner and furnace man; must be a good handy mechanic; married man preferred; steady job by year; state wages wanted. Address G. care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13

Wanted—An all around tinner and H. A. furnace man; state wages expected and if married; also give reference in first letter. Address Wm. Frey, Beardstown, Ill. 13

Wanted—Tinner; one that has some knowledge of plumbing preferred; also plumber; one that can do some tinning preferred; state wages wanted; married or single. Address F. B. Karl, Delaware, O. 13

Wanted—At once, a first-class, sober tinner, able to do all kinds of job work; thoroughly understands furnace work; all kinds of roofing; one that understands saw mill blow pipe work; a young and active married man preferred; steady job and good wages. Address H. W. Kuehner, foreman with Watson Bros., 1423 Grant St., Marinette, Wis. 13

Wanted—Tinner, one that can do roofing, spouting and job work; no booze fighters wanted; wages $2.50 per 10 hours. Address Chas. Wolf, Mt. Vernon, O. 13

Wanted—At once, a good tinner who thoroughly understands the business, also furnace work, hot water and plumbing; to take charge of shop, steady work the year around for the right man; good wages; must be absolutely sober and honest; state wages in first letter; married man preferred and one that can speak German. Address Jaehning Bros., Redwood Falls, Minn. 13

Wanted—Line stove salesman for Kansas, Nebraska and Missouri trade; state fully experience and salary wanted. Address D. & M., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13

Wanted—A1 stove salesman for Illinois, Indiana and Missouri trade; state fully experience, references and salary wanted. Address Williams, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 13

Wanted—Clerk and tinner, one who can do inside and outside work and have some knowledge of warm air furnace work. Address Walter & Doenel, Norway, Iowa. 13

Wanted—A good tinner, who understands tin work, hot air furnace work and some plumbing; state wages, experience and references; steady job year around. Address Lock Box 39, Fairfield, Ill. 13

Wanted—Foreman and estimator to take charge of a shop employing on an average of four men; just a good competent, sober tinner who will work just the same as the workmen in the shop, but who knows how to take work off plans and figure it out and keep the men at work and run the tin shop. We do tin, galvanized iron and slate work, install furnaces and do general job work in the shop; state your age, salary expected; with whom you have had service and other particulars. Address J. E. Guenther, Owensboro, Ky. 13

Wanted—A good all around tinner and furnace worker; steady job all the year. Address A. J. Mohr, Chambersburg, Pa. 13

Wanted—First-class tinner; must be able to do a good job of tin work, spouting and roofing; also able and willing to clerk in store; understand something about furnaces and a hustler; will pay the right kind of a man good wages the year around; married man preferred. Address Bunnell & Piper, Monticello, Ind. 13

Wanted—First-class tinner and jobber work; steady job for steady first-class man. Address Messenger & Parks, Aurora, Ill. 13

Wanted—Good tinner, who understands furnace work, pipe fitting and can do some plumbing. Good job year around and good wages to a sober man. Address New York Hardware, Perry, Okla. 12

Wanted—Tinner who understands air furnaces and ordinary plumbing. Young married man preferred. State wages wanted. Address D. L. Baughman, Albion, Ind. 12

Wanted—A good tinner and furnace man at once. Address W. & K., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 12

Wanted—A good tinner who understands plumbing, work year round in country shop; must be able to get up estimates. Address Weydert, Bayou Sara, La. 12

Wanted—Young tinner for shop in connection with hardware store. Must be all round man and willing to attend to business. None but a sober man need apply. State age and experience in first letter. Steady job to the right man. Address E. J. Ketcham, West Duluth, Minn. 12

Wanted—Cornice maker; must be able to erect work on large buildings and take charge of men. Steady job to thoroughly first-class man. Address Messenger & Parke, Aurora, Ill. 11

Wanted—Good tinner; must be an all around man for general job work and with some experience in pump and pipe work. Good wages; married man preferred. Address Tabaka Bros., Ivesdale, Ill. 11

SITUATIONS WANTED.

Wanted—Situation by tinner 21 years of age, three years' experience in tinning, plumbing, steam and hot water heating. No bad habits, northern Illinois preferred. Address Box 77, Standish, Mich. 12

Wanted—Situation by young man as tinsmith and hardware clerk with six years of experience. Can furnish good references. Can start to work at once. State wages in first letter. Address L. Box 41, Litchfield, Minn. 12

Wanted—A place to learn tinners' trade by bright German-American, age 18. Can furnish references if desired. Address Lock Box 315, Alden, Minn. 12

SPECIAL NOTICES

FOR SALE

Hardware business; $10,000 proposition; excellently well located on principal street in North Yakima, Wash. Address E. G. Peck, Broker, 14 S. 2nd Street. 1t.13

FOR SALE

Warehouse, well located on N. P. Sidetrack, North Yakima, Wash. $3,200. Address E. G. Peck, Broker, 14 S. 2nd Street, North Yakima, Wash. 1t.13

WANTED

An active, experienced, thoroughly competent foreman for the sheet iron department of a large stove and range manufactory in Ohio. Give age, experience, references and wages desired. Correspondence strictly confidential. Address, Satisfaction No. 7, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 3t.13

FOR SALE

Clean stock of hardware, stoves, etc., invoicing at about $5,500 in live town of 9,000 in southeastern Nebraska, county seat, three railroads. Business established 25 years. Wish to give all my time to my manufacturing business. Address F. D. KEES, Beatrice, Neb. 8t.12

TINNERS WANTED

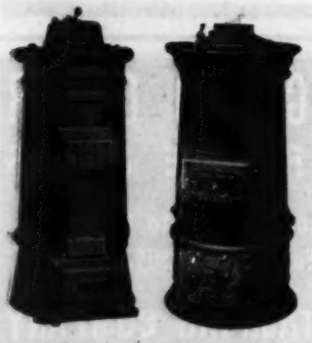
Six first-class furnace tinners to set up furnaces. Shop and outside work. Steady job the year around for rapid and careful workers. Write at once to

R. J. SCHWAB & SONS CO., Milwaukee, Wis. 5t10

Hot Water Supply

It pays for the modern plumber, and dealers in equipments of comfort and convenience, to be always ready to show and sell the best Heaters for hot water faucet supply—and for all other purposes requiring heating or tempering of water to various degrees of warmth.

We make 4 types of IDEAL Tank Water Heaters—deep fire-pots—quick circulators—take little fuel—easy to set and run. Best in market.
Booklets free.



Ideal Premier and Ideal Junior Tank Water Heaters

IDEAL Boilers,
IDEAL Tank Heaters,
AMERICAN Radiators.

AMERICAN RADIATOR COMPANY

General Offices: 282-284 Michigan Avenue, Chicago.

New York, 42-44 E. 20th St.
Boston, 44 Oliver St.
Philadelphia, 622 Arch St.
Baltimore, 109 E. Lombard St.
Buffalo, Court and Franklin Sts.
Chicago, 282-284 Michigan Ave.
Minneapolis, 204-206 Fourth St. So.
Milwaukee, 126 Sycamore St.
Pittsburg, 926 Farmers' Bank Bldg.
Cincinnati, 336 W. Fourth St.
St. Louis, 207-209 N. Tenth St.
Omaha, 417 S. Fifteenth St.
Denver, 831 Fifteenth St.
Seattle, 320 Lumber Exchange
Detroit, 225 Jefferson Ave.

SPECIAL NOTICES.

WANTED

To buy patents of articles made of Sheet Metal. Address "SHEET METAL," 115 Third St., Middletown, Ohio. 9t.12

FOR SALE.

A good, clean stock of general hardware, well located in Chicago. $1 000.00 cash, balance on time. Selling on account of other investments. Address M. C., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 3 11

HOERLE

Hardware Specialties, Novelties to order, Stamping to order, Refining and Hardening Solutions for Steel.
W. M. HOERLE,
Allegheny, Pa.

WANTED

First-class stove salesman, acquainted with Michigan trade. THE GLOBE STOVE & RANGE CO., Kokomo, Indiana. 3t.11

PRINTING

Envelopes, XXX, 6¾ (white) $1.65 per thousand, in 2 or 5 thousand lots, prices low on all kinds of printing. I make a specialty of manufacturers and merchants printing, write me for prices on any kind of printing. V. BLAKELY PRINTERY, Milesgrove, Pa.

The Activ Patents

Opportunities come, opportunities go. Seize while you may. Steel sheet workers, brass founders, braziers, required to make and push sale. Enterprising firms only treated with. Address, A. W. MELDRUM & CO., Wellflat Works, Kirkliston, Scotland.

C. N. HOOPER, Dubuque, Iowa.

VITREOUS ENAMELING TECHNOLOGIST

Designs, builds and starts new plants. Improves quality and reduces the costs in those already established.

WANTED

Experienced stove salesman for Indiana, Illinois and Missouri for a trade mark line of stoves, steel ranges and heaters for 1905. Address with reference and state territory preferred. Jess, Lock Box 337, Decatur, Ill. 1t. 26

High Grade Porcelain and Majolica Enameling

in all shades and colors, on steel, sheet and cast iron.

Our Porcelain Enamel is unexcelled for stamped steel Kitchen Sinks, Refrigerator Linings, Lamp Shades and Ventilators, steel and cast iron Registers, Steel Ranges and Steel Stoves of any description and cast iron Stove Reservoirs, etc., etc.

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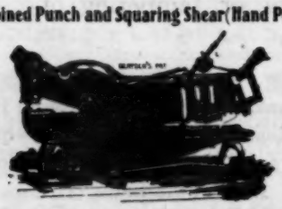

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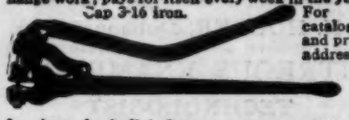

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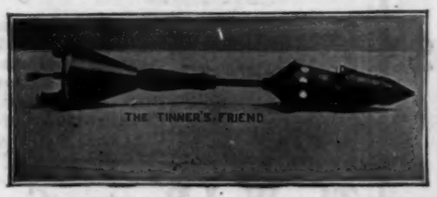

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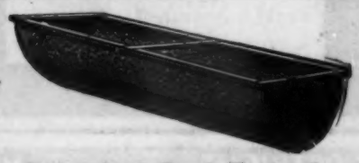

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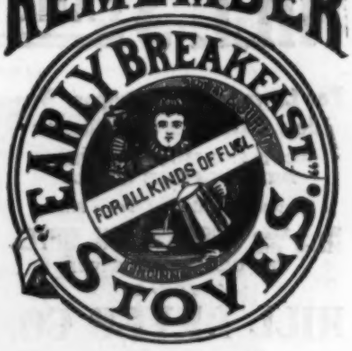

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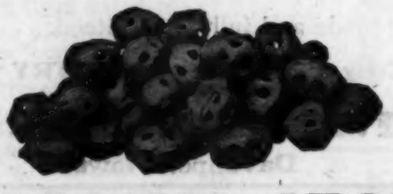

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Where conditions of Production and Distribution are favorable. We have the Iron, Steel, Timber, Fuel, Transportation Facilities, Markets. No section surpasses ours.

M. V. RICHARDS,
Land and Industrial Agent
Washington, D. C.

CHAS. S. CHASE, Agent, 729 Chemical Building, St. Louis, Mo.

M. A. HAYS, Agent, 225 Dearborn Street, Chicago, Ill.

SPERRY'S STEAM KETTLES

Made from very thick metal, without Stay Bolts, joint packed in such a manner as to never need repacking. A little higher priced than some, but they are safe and tight.

D. R. SPERRY & CO. HOLLOW-WARE FOUNDERS **Batavia, Ill.**

Laing & Pearoe, Montezuma, Iowa, write: "Please discontinue our ad. in your paper. We got forty applications on the strength of the ad."

THE "Ideal Rural Mail Box" is the carrier's favorite, as it is the most convenient box on the market; he does not have to get off his wagon to deposit or withdraw the mail. Cannot get wet inside, even when opened during the severest weather to deposit the mail; can be used with one gloved hand, as the locks are riveted on, no two locks alike, master key furnished carrier free, which will unlock all of my boxes. 18 inches long, 9 inches high and 6 inches wide. Well made of the best No. 20 galvanized steel.

OPEN

Approved by the Postmaster General.

CLOSED

WRITE FOR PARTICULARS TO

C. G. FOLSOM, South Bend, Indiana

THE TAYLOR & BOGGIS FOUNDRY CO.
CLEVELAND, OHIO
MANUFACTURERS OF LIGHT GRAY IRON CASTINGS

Builders' Hardware, Dampers and Damper Clips, Oil and Gas Stoves, Furnace Lamps, Molasses Gates, Letter Boxes, Hardware Specialties.

BLICK No. 3 THE BEST.
Rural Free Delivery Box

Made of Heavy Galvanized Steel.
Painted with Aluminum.
Positive Locking Flag Signal.
Automatic Spring Latch.
It is a big one—6½x8½x19 inches.
It will Get the Business.
You Better Get It.
Box and Price Right—$5.88 per Dozen.
Better Order Now.

BLICK-WILLIAMS CO., Indianapolis, Ind

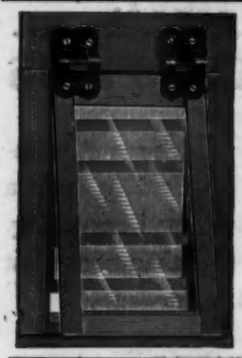
OHIO MILK CANS

Low in Price; High in Quality.

The body sheets of these cans are always offset and riveted. The flange of the breast is always soldered to the body all the way around, both outside and inside.

Write for General Creamery Supplies Catalogue.

BLANKE & HAUK SUPPLY CO. : ST. LOUIS



Full length window screens keep out all the flies and protect the windows. Screens attached with

GOSSETT'S
Detachable Suspension
HINGES

are easily put up or removed—no tools or ladder necessary. Write for free sample pair.
Sold by Hardware Jobbers and Dealers.
Manufactured by

F. D. KEES, Beatrice, Neb.

THE NEW "IDEAL"
CREAM EXTRACTOR

Best Seller on Earth

Has utmost cooling capacity. Don't mix milk and water. Inner can instantly removable. Air chamber over entire can. Patent improved milk and water faucets. No water required in winter, and many other superior advantages all described in catalog mailed Free.

THE PLYMOUTH MFG. CO., :: Plymouth, Ohio

THE ROYAL IRON STAND.

Very handsomely designed; made of best iron; extra nickel plated; weight 9 ounces; will hold any iron; a rapid seller. Franklin Specialty Co., Reading, Pa. 5, 10 and 15c. hardware articles our specialty.
Chicago office, 108 Lake St.

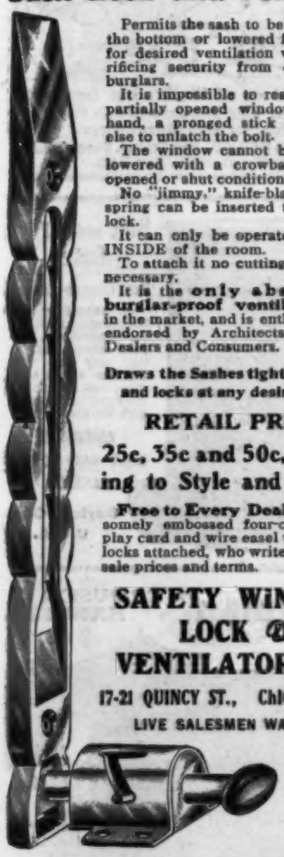
HOMESEEKERS EXCURSIONS
On FIRST and THIRD TUESDAYS in each month to VIRGINIA
Via NORFOLK & WESTERN RAILWAY
For all information as to Rates and Tickets and for LAND PAMPHLETS and descriptive matter, address
ALLEN HULL, D. P. Agt., Columbus, Ohio

PATTERN LETTERS
WE HAVE THEM
SIZES, ONE EIGHTH TO TWO INCHES.
ROMAN, ROUND FACE GOTHIC, SHARP FACE GOTHIC, HAIR-LINE GOTHIC, FLATTENED FACE GOTHIC, ANTIQUE POINTED AND REVERSED NAMES FOR BRANDING IRONS.
ST. LOUIS ELECTROTYPE FOUNDRY
214-216 PINE ST. ST. LOUIS, MO.

ROSENBERG'S

BURGLAR PROOF

Sash Lock and Ventilator



Permits the sash to be raised from the bottom or lowered from the top for desired ventilation without sacrificing security from entrance by burglars.

It is impossible to reach over the partially opened window with the hand, a pronged stick or anything else to unlatch the bolt.

The window cannot be raised or lowered with a crowbar in either opened or shut condition.

No "jimmy," knife-blade or clock spring can be inserted to open *this* lock.

It can only be operated from the INSIDE of the room.

To attach it no cutting of sashes is necessary.

It is the **only absolutely burglar-proof ventilator lock** in the market, and is enthusiastically endorsed by Architects, Builders, Dealers and Consumers.

Draws the Sashes tightly together and locks at any desired point.

RETAIL PRICE:

25c, 35c and 50c, according to Style and Finish.

Free to Every Dealer, a handsomely embossed four-colored display card and wire easel with sample locks attached, who writes for wholesale prices and terms.

SAFETY WINDOW LOCK & VENTILATOR CO.

17-21 QUINCY ST., CHICAGO, ILL.

LIVE SALESMEN WANTED.

THE BOSS

Screen and Storm Window Fastener

It's Adjustable!

Made of galvanized steel—fits any size window—will never work loose—anyone can put them on—no loss of time or patience.

They're cheap; they're neat; they're a good selling specialty.

Pat'd Oct. 20, 1908.

Screen and Storm Window Fastener Co.,

NEW CASTLE, NEB.

J. F. LEWIS, Cisco, Ill., *Writes "I cannot get along without The American Artisan"*

More Light

If you want the best light possible for your store, for about one-tenth the cost of gas or electricity, write for full particulars about the

ANN ARBOR GASOLINE LIGHTING SYSTEM

BRIGHT AS DAY, CLEAN, CONVENIENT, CHEAP

OUR SPECIAL INTRODUCTORY OFFER

will interest every merchant who believes in modern methods. Write for it to-day. Our catalog shows a full line of Independent Arc Lights and Gasoline Lamps for the house. We can use a few more hustling agents. Write for full particulars to-day.

SUPERIOR MANUFACTURING CO.

249 Second Street, ANN ARBOR, MICH.

Smith's Automatic Cream Separators

Nine Different Styles

OUR NEW GAUGE

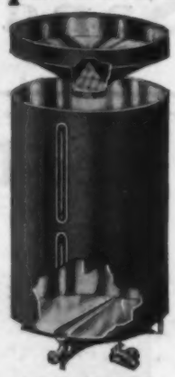
Made of the very best material and superior in workmanship, as we employ only the very best mechanics. All our separators are equipped with

Smith's Patent Removable Gauge

shown in cut, and found on no other make. Double seamed bottoms, well soldered, and no leaks.

Our prices are reasonable.

Write us now for catalog, illustrating Cream Separators, R. F. D. Mail Boxes, Smith's Strainer Pails, Strainers, etc.



REMOVABLE INNER CAN

SMITH BROS. MFG. CO. 246 E. Kinzie St., Chicago, Ill. 257 S. Meridian St., Indianapolis, Ind.

Make More Money

Rural Routes are going in all around you. New boxes are needed on old routes. You should get this business. You *can* get it with

Bates-Hawley Patent **SIGNAL MAIL BOX**

It is the original box for Rural Routes with special endorsements of Postmaster General. The best made, the best liked, the best advertised and the easiest sold.

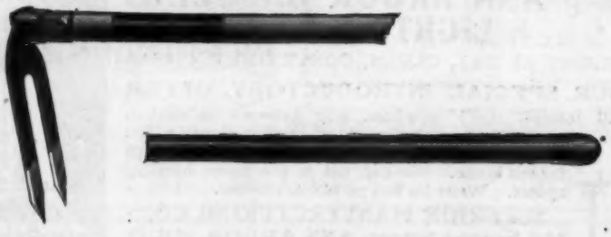
SIGNAL MAIL BOX CO.

106, Benton St., JOLIET, ILLINOIS.

Soft Wood File Handle

Write and get our bargain prices on this specialty.

Hoes, Planes, Hand Screws and Other Carpenters' Tools



We make the best plane iron on the market and supply more than three-fourths of the irons now used in wood planes.

Sandusky Tool Co.

Sandusky, Ohio

This Label on all Taplin's Pat. Improved **Dover Egg Beaters** stands for **Quality and Durability.**

THE TAPLIN MFG. CO., New Britain, Conn., U.S.A.
156 Chambers St., New York.

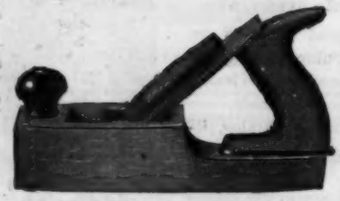
Bolt and Screw Cases

Save Time and Money

A necessity for Hardware Dealers, Machine Shops, Pattern Shops and in fact any one who handles small articles; last indefinitely. Send for descriptive booklet.

AMERICAN BOLT AND SCREW CASE CO.
Dayton, Ohio U.S.A.

Good, Better or Best!



There are all kinds of tools made and sold—some are good, some are better, some are BEST. Mechanics who know and appreciate quality realize that "OHIO" tools come in the latter class, "THE BEST."

This accounts for the increasing popularity our tools are meeting in every state in the Union as well as abroad.

Cater to the artisans "who know," Mr. Dealer, and they will make your store their headquarters.

NOTE: WE DO NOT SELL CATALOGUE HOUSES.

Ohio Tool Company

NEW YORK OFFICE:
J. C. McCarty & Co., 10 Warren St.

Factories: Columbus, Ohio
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"Pullman" TROUSER HANGERS

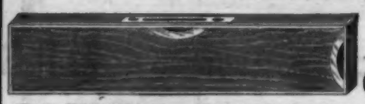
No. 4 Size

Leads them all. Folder No. 25 tells why. Sent free.

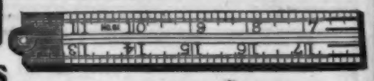
PULLMAN MFG. CO., Rochester, N. Y., U. S. A.

The CHAPIN-STEPHENS CO.

UNION FACTORY



BOXWOOD and IVORY RULES



PLUMBS and LEVELS

PLANES, HANDSCREWS, GAUGES, ETC., ETC.

Lock Box 13 PINE MEADOW, CONN., U. S. A.

MANUFACTURERS

Contemplating establishing plants in the West should take advantage of a location on

THE NORTH-WESTERN LINE
C.&N.W.RY.

Chicago & North-Western Ry.

which reaches the famous

Water Powers, Coal Fields, Iron Ore Ranges, Hard and Soft Lumber Districts

of the West and Northwest, and affords the best means of transportation to the markets of the world. For further particulars apply to

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CHICAGO

STANLEY RULE AND LEVEL CO.

IMPROVED CARPENTERS' TOOLS

Sold by All Hardware Dealers **NEW BRITAIN, CONN.**

Acme Ball-Bearing Casters

Made for all kinds of furniture. Scientifically constructed. Used in all parts of the *world*. Ask for the A. B. C. Casters. Accept no other. Ask your dealer for them.

Dept. 656,

SMITH & HEMENWAY CO.,

296 Broadway, New York City. Mfrs. Cutlery & Hdwe. Specialties.

"Yankee" Drills

HAVE YOU SEEN THE NEW DRILL—NO. 44 WITH ADJUSTABLE TENSION?

No. 44—AUTOMATIC DRILL.

SOLD BY LEADING JOBBERS

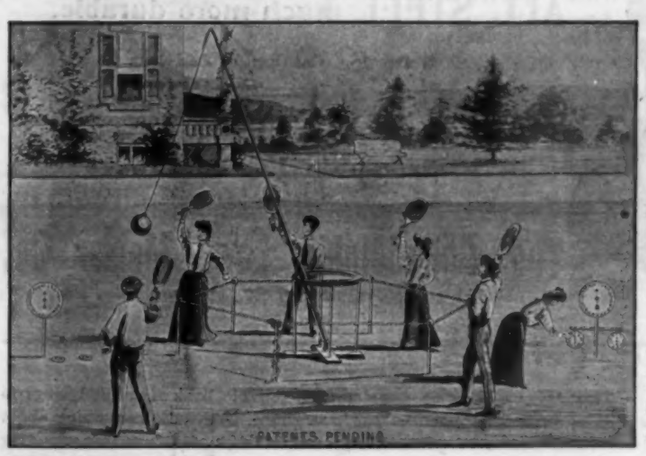
No. 42—AUTOMATIC DRILL.

No. 43—AUTOMATIC DRILLS FOR VERY LIGHT DRILL POINTS.

Send for "Yankee" Tool Book

No. 80—RECIPROCATING DRILL FOR WOOD OR METALS.

NORTH BROS. MFG. CO., Philadelphia, Pa.



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growing into popularity at the rate of one hundred per day. For prices and rules address

W. H. JOHNSTON & CO. :-: 113 Edmund Street, Peoria, Ill.

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Do You Want a Partner?

Warren's TWELVE Silent Salesmen
Required TWELVE Years to perfect
Will Work TWELVE Hours every day
For TWELVE Years to Come
After first TWELVE Months—for nothing

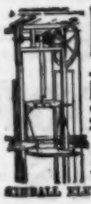
At the end of twelve years experience, in order to learn the opinion of merchants using these a circular letter was mailed to every firm that had tried them, thus reaching stores in large cities, county seats and sequestered communities. The average of replies received contained the following gratifying results:

Increased Sales	25 per cent
Less Capital Required	25 " "
Goods Saved from Injury	33 " "
Goods Saved from being Misplaced and Lost Track of	30 " "
Time Saved in Serving Customers	35 " "
Customers preferring them to the Old Way	99 " "
Number of Months in Which They Will Pay for Themselves	11-7-12 Months

These answers show definitely what they accomplish.

Colored illustrations of the twelve will be mailed to anyone writing for No. 120 Portfolio.

J. D. Warren Manufacturing Co.
5th Floor Masonic Temple, Chicago, U.S.A.



ELEVATORS

Improved Quick and Easy Rising Steam, Electric and Hand Power

Send for circulars.

KIMBALL BROS. CO.
1031 Ninth St., COUNCIL BLUFFS, IA.
KIMBALL ELEVATOR CO., 189 Vincent St., CLEVELAND, O.

Measuring Tapes

Steel, Metallic, Linen, etc. Our Goods are Recognized as the Best. Tinners' Rules, Magic Pattern Rules, etc. Send for Catalogue and Mention The American Artisan.

Lufkin Rule Co.

SAGINAW, MICH.

PORTER

THAT'S IT

Porter's Meadow King Hay Carrier, Best on Earth, and a Complete Line of Haying Tools.

We Do Want Your Business. Write Now for Catalogue and Prices.

J. E. PORTER CO., - - - OTTAWA, ILL.

Clipper Lawn Mower Co.

DIXON, ILL.

THE MOWER that will **Kill all the Weeds in Your Lawns.** If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders of roots, the grass will become thick and the weeds will disappear. **The CLIPPER will do it.**

NO MAN ON THE ROAD.

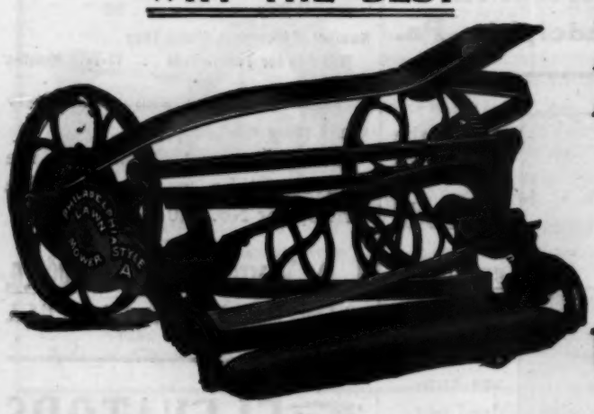
SPOT CASH PRICES TO THE TRADE.

No. 1.—12-inch	$4.50
No. 2.—15-inch	5.00
No. 3.—18-inch	5.50
No. 4.—21-inch	6.00

Please send Draft, P. O. Money Order or Express Money Order or Registered Letter.

The Only ALL STEEL Mower in the World

WHY THE BEST



ALL STEEL one-half lighter.
ALL STEEL one-half light running.
ALL STEEL much more durable.

Write for Catalog of full line of HORSE and HAND mowers.

GENUINE
Philadelphia Lawn Mowers
Made only by

The Philadelphia Lawn Mower Co.

3101 to 3107 Chestnut St., Philadelphia, Pa.

"BLUE BOOK" CREDITS

—OF THE—

Iron, Steel, Hardware, Stoves, Tinware, Plumbing, Etc., Trades.

This Agency issues as complete and reliable book of credit ratings fo this special branch of trade as has ever been published, containing about 400,000 rated names of wholesalers, retailers and manufacturers, covering the trade thoroughly. The ratings are conservative and very reliable. The *paying record* is based upon *ledger experience* of credit men everywhere.

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Terms of subscription can be had by addressing Executive Office

Iron and Hardware Mercantile Agency.

157 Federal Street. BOSTON, MASS.

Don't Buy Hangers Because They Are Cheap

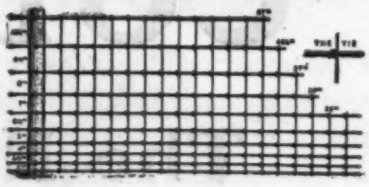
Don't Expect Something for Nothing!

(No. 19 Hero Trolley House Door Hanger.)

Richards' Hangers are quality goods first, last and all the time. Our new 88-page Catalog will tell the story. It's yours for the asking.

THE RICHARDS MFG. CO., Aurora, Ill.

The Fence That Suits



Your Customer
is the one for you to handle.

Woven Field Fencing
Both Single and Double Strand.

JUMBO POULTRY turns everything.
Lighter Poultry for less money
of Various Weights.

Lawn and Cemetery Fence,
Barb Wire, etc.

SEND FOR CATALOGUE.

THE DENNING WIRE & FENCE CO.
CEDAR RAPIDS. - IOWA

Stay-In Flue Stoppers

Brass finished. Nicely decorated. Cannot be jarred or blown from flue hole. Guaranteed to be soot proof.

Perfection Cake Mixer

Made of No. 16 steel. It's one of the best articles on the market. Almost everybody thinks so.

STUBER & KUCK, Peoria, Ill.
Manufacturers of Pieced Tinware and all styles of Flour Sifters

E. H. TITCHENER & CO.

Headquarters for
STAPLES AND THINGS.
Binghamton, N.Y.
and 42 N. Peoria St., CHICAGO.

Write To-Day

The Lenawee Mfg. Company
Adrian, Mich.

Make the

Lenawee Wire Fence Anchor

To farmers using woven wire fencing they are an absolute necessity. Set between the posts they hold the fence close to the ground and save every third post.

A SUITABLE LOCATION
for any physician, professional or business man as well as any industry is easily found by consulting the Industrial Department of this Company.

The proposition submitted will be attractive, embodying full information, such as will enable intelligent action in such an important matter as change of location.

Our monthly magazine of Southern Opportunities will prove invaluable to those interested in the South.

THE LAND OF MANATEE
is the most beautiful section of the world, recently discovered by the Seaboard.

The climate is delightful, winter and summer, the atmosphere salt-laden and perfumed by the odor of thousands of blossoming orange, lemon, grape fruit and guava trees, and most beautiful and fragrant of flowers.

A land of perfect health and plenty, ideal living, where crime, trouble and ill-health are positively unknown. Cultured, refined people. Manatee booklets free on request.

The most costly piece of literature ever issued by a railroad is the special southern edition of the Seaboard Magazine of Opportunities—yes, there is one for you. It is unique, contains no advertisements, and little reading matter. Embodies numerous full page photo-gravures, the most exquisite examples of modern printers' art. It would command fifty cents from booksellers.

Sent free upon receipt of ten cents for postage.

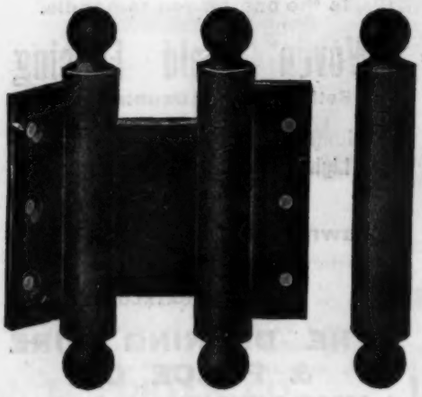
J. W. WHITE
General Industrial Agent,
Portsmouth, Va.

SEABOARD AIR LINE RAILWAY

"COLUMBIAN"

TRADE MARK

The New Spring Hinge



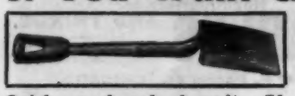
To convince you of the superiority may we not have a sample order for "Columbian" Sheet Metal Hinges, Single and Double Acting?

The Columbian Hardware Company

CLEVELAND, OHIO

NEW YORK SAN FRANCISCO CHICAGO LONDON

If You Want Good Shovels Rather Than Cheap Shovels



See that they have one of the following labels, which are our standard brands:

"NEVER-BREAK" NATIONAL BUCKEYE MOHAWK

We do not pretend to compete with inferior goods. If you want high quality, style and finish our shovels show it. If your jobber will not supply you, we will be pleased to quote you prices.

THE AVERY STAMPING CO., Cleveland, Ohio

Sole makers of "NEVER-BREAK" *Seamless Steel Cooking Utensils and other wares, catalogue of which may be had free.*

INDUSTRIES ARE OFFERED LOCATIONS

WITH

Satisfactory Inducements,
Favorable Freight Rates,
Good Labor Conditions,
Healthful Communities,

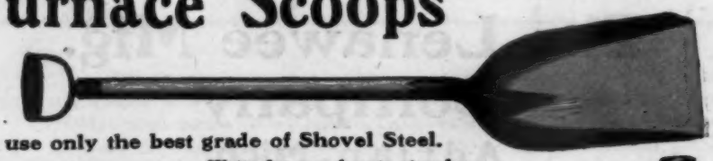
ON THE LINES OF

THE ILLINOIS CENTRAL R. R.
AND THE
YAZOO & MISSISSIPPI VALLEY R. R.

For full information and descriptive pamphlet address

J. C. CLAIR, Industrial Commissioner,
1 Park Row, CHICAGO,

Furnace Scoops



We use only the best grade of Shovel Steel.

Write for our 4-page circular.

We furnish either style D Handles shown in illustrations—Also Long Handles.

F. E. KOHLER & CO.

The Hardware Specialties Mfrs. CANTON, OHIO, U. S. A.

JOHN PORTER, ALTOONA, PA., Writes: "I can't run my shop without THE AMERICAN ARTISAN."

The Butcher

is one of the citizens to whom **saw quality** is essential. Meat bones are a poor material on which to make good the claims of poor steel. The best butchers, like saw users in every line, know that there is one line of saws that fills their every need and that on those saws you'll find the name **Disston.**

The hardware dealer who has asked himself the vital business question **"why is there such a demand for Disston Saws"** and has honestly sought the answer has found it in this demand born of inexorable experience on behalf of all saw-using artisans for **saw-quality.**

HAVE YOU OUR CATALOGUE?

Henry Disston & Sons, Inc.,

Keystone Saw, Tool, Steel and File Works

PHILADELPHIA, PA.

"ENTERPRISE"

PATENTED HARDWARE SPECIALTIES

RAPID GRINDING AND PULVERIZING MILLS

No. 00, $1.25

No. 0, $1.50

No. 3, $5.50

Bone, Shell and Corn Mill

No. 750, $8.50

15 Sizes and Styles for Hand, Steam and Electric Power

Meat Juice Extractor

No. 21, $2.50

MEAT AND FOOD CHOPPERS

No. 2, $1.50

No. 5, $2.00

No. 12, $2.75

30 Sizes and Styles for Hand, Steam and Electric Power

Send for Illustrated Catalogue describing many other Useful Articles **Order from your Jobber**

N. Y. Branch, 10 Warren St.

The Enterprise Mfg. Co. of Pa.

Philadelphia, U. S. A.

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Manufacturers of
WINDSOR FURNACES,
STOVE, RANGE *and*
FURNACE PARTS.

SPECIALTIES FOR THE
HARDWARE TRADE

Jobbers of
FIRE BRICK, CLAY,
MICA, POLISH,
ENAMEL, *and*
ASBESTOS CEMENT

V. A. ROSSBACH, Prest. & Treas. E. H. STAFFORD, Vice-President. B. A. ROSSBACH, Secretary.

J. L. Morris Stove Repair Co.

29 AND 31 SOUTH DESPLAINES STREET
Corner Washington Boulevard

TELEPHONE MONROE 500

Chicago, Mar. 24, 1905. 190

The American Artisan,

City.

Gentlemen:

Enclosed please find change of copy for our advertisement. Kindly change it in the next issue and arrange it in your usual attractive form. We hope we will obtain as beneficial results from this announcement as we have from our others in the past.

We are constantly receiving orders from dealers all over the West and Northwest with whom we never did business before and as THE AMERICAN ARTISAN is the only trade publication in which we advertise we are confident that our increase in trade largely comes from our card in your pages.

Wishing you continued success, we are

Yours very truly,

J. L. Morris Stove Repair Co.
By V. A. Rossbach
Pres. & Treas.

IF YOU WANT

R.R. MILK CANS

FACTORY CANS, CREAM-SEPARATORS.

DO NOT FORGET

THAT WE ARE STRICTLY IN IT WITH

THE LARGEST LINE ON EARTH.

SEND FOR OUR PRICES BEFORE BUYING.

NATIONAL ENAMELING AND STAMPING CO.

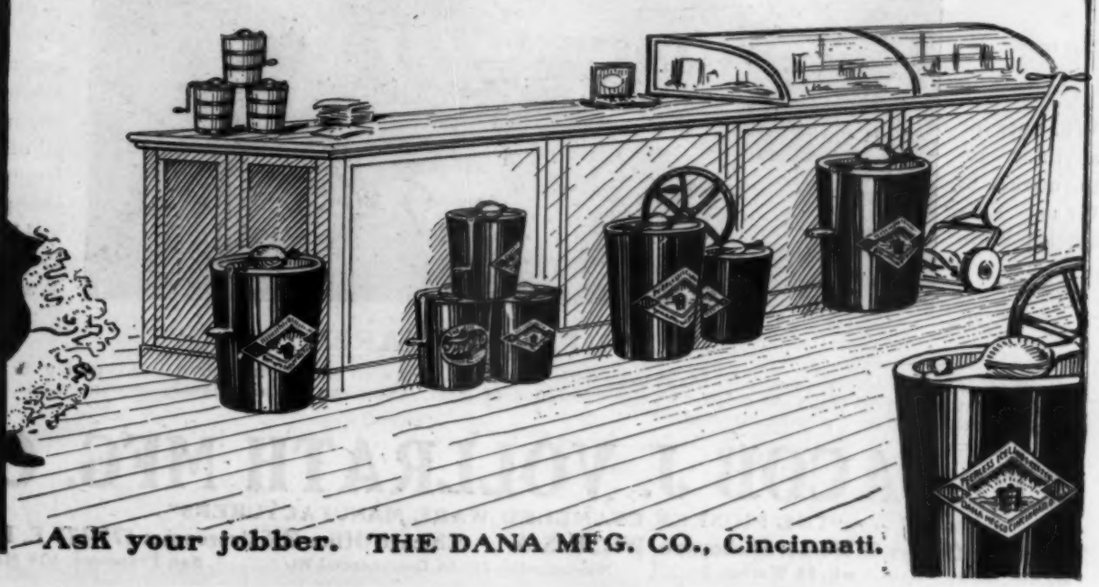
NEW YORK.

ST LOUIS·MILWAUKEE·BALTIMORE·NEW ORLEANS·CHICAGO·PHILADELPHIA.

Show the Goods and see which the customer selects. "Merit talks better than men."

The **Peerless Iceland**

appeals quickest to a woman's mind. Her practical sense tells her it will be easy to manage and sure to make good cream. It is simple, clean-cut, best advertised. Peerless Icelands in your store sell themselves.



Ask your jobber. THE DANA MFG. CO., Cincinnati.

"Hardware Dealers"
"AJAX WARE"

"Just Out" "New Styles"

Latest addition to the celebrated "Vollrath Wares"

"THE WARE OF QUALITY"

Assortment "C"

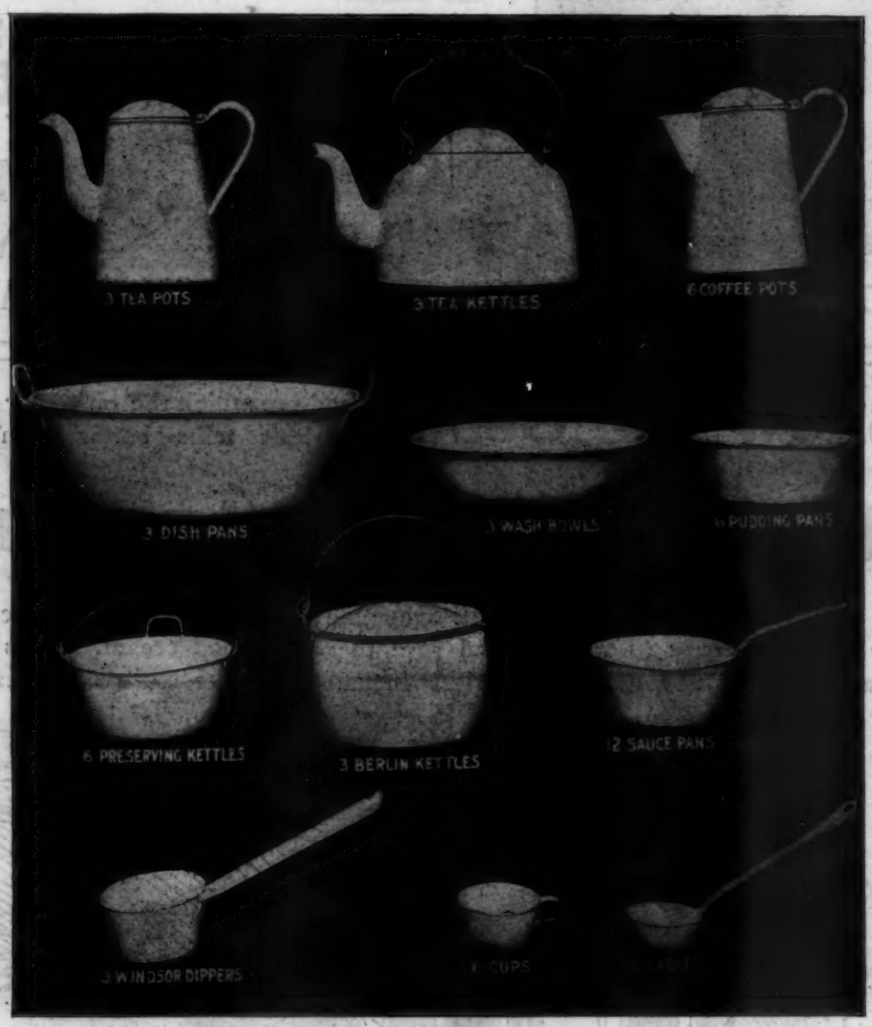
"60 Pieces"

A few of the staples packed in one case which gives you an opportunity to give the ware a trial at a small investment.

All quick sellers and big profit makers.

Different from anything on the market.

Will outwear anything on the market in Gray Enameled Ware



The shrewd merchant sells what he knows will prove satisfactory to his customer.

Ajax ware satisfies and pleases the most careful housekeeper.

An inquiry for Assor't "C" Ajax will bring you postpaid the net price on this assortment also a copy of our general catalogue showing in colors all of our different lines of stamped steel and Cast Iron Enameled Wares.

"ABOUT THE WARE"

Ajax Ware is in appearance a beautiful Light Gray with a uniform peppered mottle in and outside, giving it the appearance of the dantiest china combined with the durability of steel. You can conscientiously recommend it to your customer and know they will be satisfied.

The JACOB J. VOLLRATH MFG. CO.

"THE PIONEER ENAMELED WARE MANUFACTURERS"

Executive Offices & Works: Sheboygan, Wis., U. S. A. Chicago Office & Salesrooms: 175-177 E. Lake St.

BRANCHES: New York, 25 Warren St. Minneapolis, 212-14 Commercial St. San Francisco, 409 Market St.

PETERS AMMUNITION

Offers the Retail Hardware Dealer a good profit and the satisfaction of handling a strictly up-to-date first-class line—one which he can conscientiously recommend—which will bring him increased business and hold it. Peters goods are

THE EASIEST TO SELL—THE BEST TO SHOOT

All Peters metallic cartridges (except, of course, the smokeless) are loaded with the wonderful Semi-smokeless powder, much superior to ordinary black powder goods. Peters Loaded Shells include a complete line—seven kinds in all—loaded with high quality black powder, Semi-smokeless powder, or any of the standard smokeless brands.

No Hardware dealer can afford to handle goods of only moderate quality, when the BEST can be had at the same price.

Ask your jobber about it. If he doesn't sell Peters goods, write the manufacturers direct and they will tell you where to get them.

THE PETERS CARTRIDGE CO., Cincinnati, U. S. A. New York, No. 98 Chambers St., T. H. Keller, Mgr.

DOCTORS RECOMMEND IT

A HYGIENIC WATER COOLER

Ice and water in separate compartments and water is kept at an even temperature.

The inside is made of malleable iron, and water compartment is lined with white porcelain. Metal parts are not exposed to the outside air, and consequently the amount of ice used is comparatively small.

Economical, handsome, substantial—with nothing to get out of order. Will last a lifetime. It never sweats. Has an extra faucet to draw off melted ice.

A GOOD SELLING SPECIALTY FOR HARDWARE DEALERS.

S. MAJOR, 461 PEARL STREET, NEW YORK CITY.

McClure's Roofing Tin

Better values for your money in roofing tin than you've ever had before. **Let us prove it.** Write for samples and prices.

The McClure Co.

Pittsburgh Philadelphia

NOTICE!

We have exceptional facilities for handling American products: Hardware, Sanitary, Heating and Ventilating Goods. Branches in England and Continent. References furnished. Address

EXHIBIT & TRADING CO., Main Office, 72 Henry St., Liverpool, England

Follansbee Brothers Co., Pittsburgh, Pa. Capital—**One Million** dollars place their written **guarantee** in every box of

Follansbee Banfield Process

Roofing Tin,

warranting it to wear for 15 years and stamp their name, address, brand and thickness on **each sheet.**

Tinners Find Employment

By advertising and using

THE POWERS AUTOMATIC CHIMNEY TOPS

They make chimneys draw, give Tinners employment making stocks, and give the dealers profit. Sold by Hardware Jobbers and Dealers

Made only by

POWERS BROS.,

Streator, - Ill.

This cut free to dealers.

The "CENTENNIAL" RAIN-WATER CUT-OFF

The strongest, most durable and cheapest CUT-OFF on the market.

The only single Cut-off made to fit CORRUGATED and Plain pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers.

Patent applied for.

Manufactured only by

COONEY & GEIGER,

19 and 21 E. South St.

INDIANAPOLIS, IND.

Frequently you need Roofing Tin that you can depend upon—that you can guarantee.

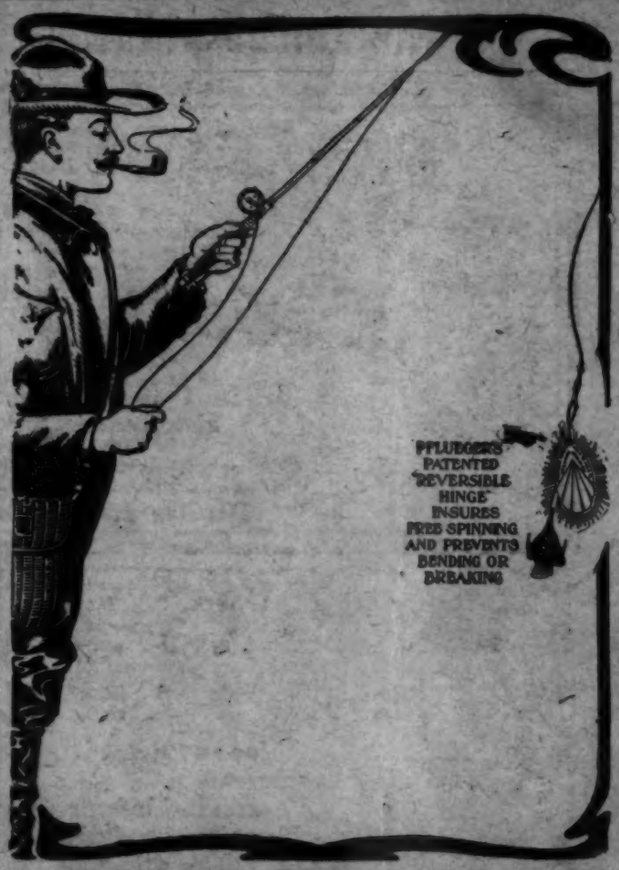
NONPAREIL Old Style fulfills every requirement—as to quality, durability and price.

Made by the old reliable Palm Oil Process, each sheet stamped and resquared—and free from pin holes.

Want our Special Price List?

ILLINOIS ROOFING & SUPPLY CO.,

23 Lake St., CHICAGO.



OSGOOD STANDARD SCALES

Ask your jobber about them.

BRADLEY SHELF BRACKETS

STRONG, LIGHT AND ALL RIGHT

Atlas Mfg. Co., New Haven, Conn.

The "GLOBE" Ventilator

in BRASS, COPPER, GALVANIZED IRON, and with Glass Tops for Skylight purposes.

For Perfectly Ventilating Schools, Churches, Halls, Mills, Factories and Audience Rooms of Every Character.

SMOKY CHIMNEYS CURED.

"GLOBE" Ventilated Ridges. Send for Pamphlet.

Manufactured by

GLOBE VENTILATOR CO., Troy, N.Y.

Wouldn't This "Scrape" You?

ATKINS ALWAYS AHEAD

You undoubtedly have a great many calls from woodworkers for cabinet and floor scrapers and while the chances are that the article you have to offer will do the work after a fashion, neither you nor your customer is satisfied with the deal. Isn't this so? If you want to improve this condition and you certainly do, put in a stock of

ATKINS PERFECTION SCRAPERS

They are equally well adapted for Cabinet Work, Scraping Hardwood Floors, Paint, Varnish, etc. Write for descriptive circular and prices.

E. C. ATKINS & CO., Leading Saw and Tool Manufacturers

INDIANAPOLIS, IND.

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New York City. Atlanta, Ga. Portland, Ore. Chicago, Ill. Memphis, Tenn. Minneapolis, Minn. Seattle, Wash. San Francisco, Cal. Toronto, Canada